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NEWS 8	OCT 21	Derwent World Patents Index Coverage of Indian and Taiwanese Content Expanded
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NEWS 14	DEC 02	Derwent World Patent Index: Japanese FI-TERM thesaurus added
NEWS 15	DEC 02	PCTGEN enhanced with patent family and legal status display data from INPADOCDB
NEWS 16	DEC 02	USGENE: Enhanced coverage of bibliographic and sequence information
NEWS 17	DEC 21	New Indicator Identifies Multiple Basic Patent Records Containing Equivalent Chemical Indexing in CA/CAplus
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	4.62	4.62

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DICTIONARY FILE UPDATES: 28 JAN 2010 HIGHEST RN 1204173-70-5

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L1 HAS NO ANSWERS
L1 STR
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED - 445 TO ITERATE

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SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 7635 TO 10165
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L2 8 SEA SSS SAM L1

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SEARCH TIME: 00.00.01

L3 167 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
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FILE COVERS 1907 - 29 Jan 2010 VOL 152 ISS 6
FILE LAST UPDATED: 28 Jan 2010 (20100128/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> s l3
L4          31 L3

=> d l4 fbib ab hitstr 1-31

L4   ANSWER 1 OF 31  CAPLUS  COPYRIGHT 2010 ACS on STN
AN   2009:176608  CAPLUS
DN   150:229659
TI   Methods and compositions using peptides and other compounds for
     derepression of IAP (inhibitor of apoptosis protein)-inhibited caspase,
     and therapeutic use
IN   Reed, John C.; Houghten, Richard A.; Nefzi, Adel; Ostresh, John M.;
     Pinilla, Clemencia; Welsh, Kate
PA   The Burnham Institute, USA
SO   U.S. Pat. Appl. Publ., 256pp., Cont.-in-part of U.S. Ser. No. 886m385.
     CODEN: USXXCO
DT   Patent
LA   English
FAN.CNT 2
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                                           US 2008-886385      A2  20080822
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                                           US 2005-84714       A   20050317
                                           US 2005-186629      A   20050719
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FAN  2006:977385
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PI   US 20060211627       A1    20060921    US 2005-186629          20050719
     US 7217688           B2    20070515
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			US 2005-84714	A	20050317
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JP 2008537735	T	20080925	JP 2008-502089		20060317
			US 2005-84714	A	20050317
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			WO 2006-US9695	W	20060317

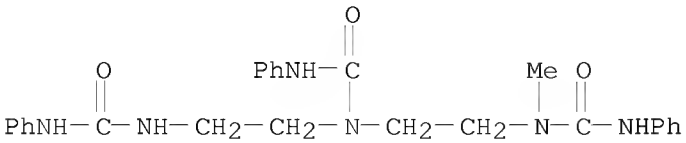
OS MARPAT 150:229659

AB The invention provides isolated agents having novel chemical structures and possessing superior activity as derepressors of IAP-inhibited caspase. The invention further provides a method of derepressing an IAP-inhibited caspase. The invention further provides assay methods employing labeled compds. of the invention, especially fluorescent labeled compds. An advantage of an agent of the invention is that it can be used to allow apoptosis to occur in a cell where apoptosis is being prevented by the regulatory activity of an IAP. Also provided is a method of treating an individual having a condition characterized by a pathol. reduced level of apoptosis, e.g. cancer or hyperplasia, by administering an agent of the invention, wherein the agent derepresses an IAP-inhibited caspase, thereby increasing the level of apoptosis. Compds. of the invention include both peptides and nonpeptide compds., e.g. polyphenylurea compds.

IT 1116141-36-6D, derivs.
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(IAP-inhibited caspase derepressor peptides and other compds., and therapeutic use)

RN 1116141-36-6 CAPLUS

CN Urea, N-[2-[methyl[(phenylamino)carbonyl]amino]ethyl]-N'-phenyl-N-[2-[[(phenylamino)carbonyl]amino]ethyl]- (CA INDEX NAME)



L4 ANSWER 2 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN

AN 2009:82735 CAPLUS

DN 151:221154

TI Synthesis of N-thioureido lariat calix[4]crown and calix[4]arene

tetrathioureido derivatives

AU Zheng, Xiao-Hua; Yang, Fa-Fu; Tang, Fu-Sheng; Yin, Feng-Ju; Yang, Yan-Xin
CS College of Chemistry and Materials, Fujian Normal University, Fuzhou, 350007, Peop. Rep. China

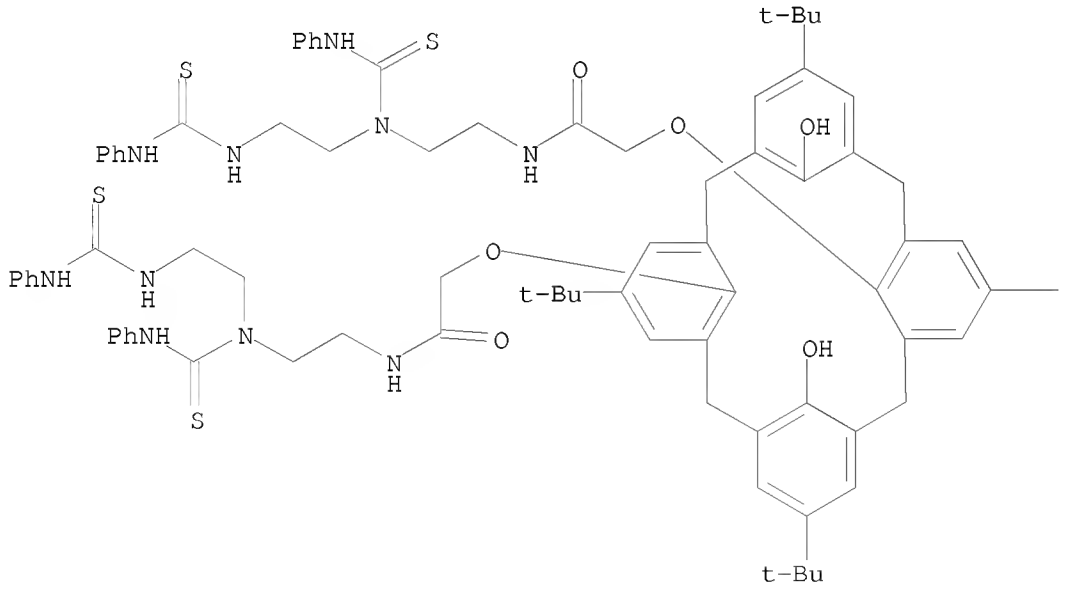
SO Youji Huaxue (2008), 28(12), 2159-2161
CODEN: YCHHDX; ISSN: 0253-2786
PB Youji Huaxue Bianjibu
DT Journal
LA Chinese

AB A method for the synthesis of the title compds. is reported here. Under control of the molar ratio of reactants, a calix[4]-aza-crown ether derivative and a ring-opened aza-calix[4]arene derivative were obtained by a reaction of 2,2'-[[26,28-dihydroxy-5,11,17,23-tetrakis(tert-butyl)calix[4]arene]bis(oxy)]bis[acetic acid] 1,1'-diethyl ester with N1-(2-aminoethyl)-1,2-ethanediamine. A reaction of the above-mentioned intermediates with Ph isothiocyanate delivered the title compds. (92% and 87% yield, resp.). The structures and conformations of new compds. were characterized by elemental analyses, IR, ESI-MS, 1H NMR etc.

IT 1072839-60-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of calix[4]arene thiourea derivs.)

RN 1072839-60-1 CAPLUS
CN Acetamide, 2,2'-[[5,11,17,23-tetrakis(1,1-dimethylethyl)-26,28-dihydroxypentacyclo[19.3.1.13,7.19,13.115,19]octacosa-1(25),3,5,7(28),9,11,13(27),15,17,19(26),21,23-dodecaene-25,27-diyl]bis(oxy)]bis[N-[2-[[(phenylamino)thioxomethyl][2-[[(phenylamino)thioxomethyl]amino]ethyl]amino]ethyl]- (CA INDEX NAME)

PAGE 1-A



— Bu-t

L4 ANSWER 3 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 2007:1472762 CAPLUS
DN 149:493360
TI Synthesis of calix[4]arene-thiourea derivative
AU Zheng, Xiao-hua; Yang, Fa-fu; Liu, Li-ming; Guo, Yu
CS College of Chemistry and Materials Science, Fujian Normal University, Fuzhou, 350007, Peop. Rep. China
SO Hecheng Huaxue (2007), 15(5), 597-598
CODEN: HEHUE2; ISSN: 1005-1511
PB Hecheng Huaxue Bianjibu
DT Journal
LA Chinese
OS CASREACT 149:493360
AB The treatment of 2,2'-[[5,11,17,23-tetrakis(1,1-dimethylethyl)-26,28-dihydroxy[calix[4]arene]-25,27-diyl]bis(oxy)]bis[acetic acid] di-Et ester with excess diethylenetriamine gave 2,2'-[[5,11,17,23-tetrakis(1,1-dimethylethyl)-26,28-dihydroxy[calix[4]arene]-25,27-diyl]bis(oxy)]bis[N-[2-(2-aminoethyl)ethyl]acetamide]. Treatment of the latter amide derivative with (isothiocyanato)benzene provided a new calix[4]arene derivative with four thiourea units. The structure was characterized by 1H NMR, IR, MS and elemental anal.
IT 1072839-60-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of calix[4]arene-thiourea derivative)
RN 1072839-60-1 CAPLUS
CN Acetamide, 2,2'-[[5,11,17,23-tetrakis(1,1-dimethylethyl)-26,28-dihydroxypentacyclo[19.3.1.13,7.19,13.115,19]octacosa-1(25),3,5,7(28),9,11,13(27),15,17,19(26),21,23-dodecaene-25,27-diyl]bis(oxy)]bis[N-[2-[[(phenylamino)thioxomethyl][2-[[(phenylamino)thioxomethyl]amino]ethyl]amino]ethyl]- (CA INDEX NAME)

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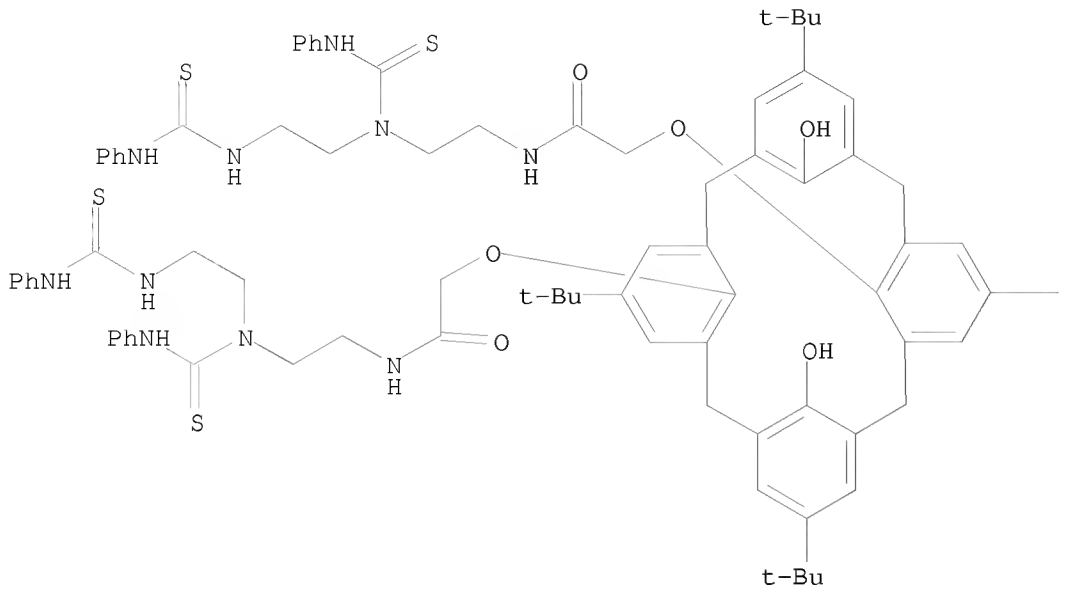


PAGE 1-B

— Bu-t

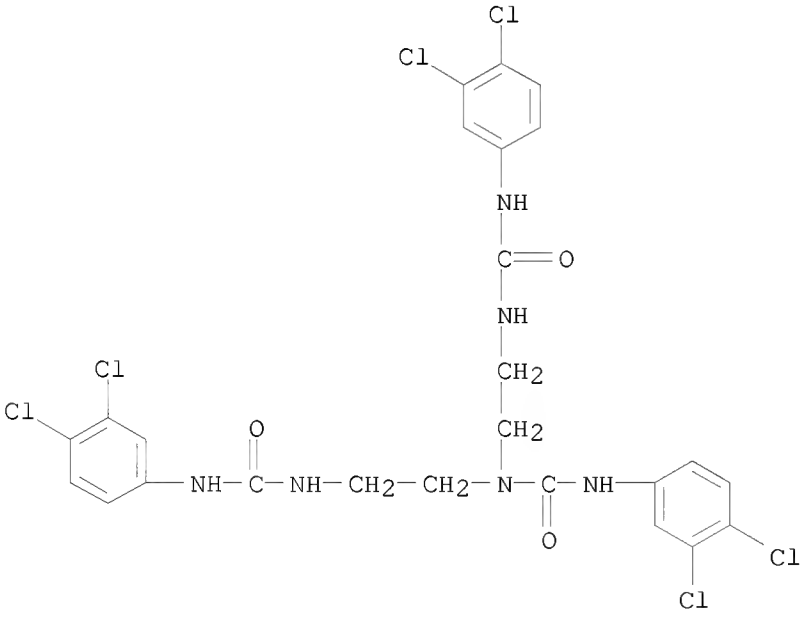
L4 ANSWER 4 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 2006:38992 CAPLUS
DN 144:292512
TI Solid-Supported Copper Catalysts for Atom-Transfer Radical Cyclizations: Assessment of Support Type and Ligand Structure on Catalyst Performance in the Synthesis of Nitrogen Heterocycles
AU Clark, Andrew J.; Geden, Joanna V.; Thom, Stephen
CS Department of Chemistry, University of Warwick, West Midlands, CV4 7AL, UK
SO Journal of Organic Chemistry (2006), 71(4), 1471-1479
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 144:292512
AB A range of solid-supported pyridinemethanimine (PMI) and polyamine ligands were prepared on SiO2, polystyrene (P), and JandaJel (JJ) supports. The

CuCl and CuBr complexes of these supported ligands were used to assess both the effect of the ligand type and the nature of the support upon a representative range of Cu-mediated atom transfer radical cyclizations of 5-exo-trig Cl3CCON(Ts)CH2CH:CH2 (6), BrCMe2CONTsCH2CH:CH2 (24), MeCCl2CONTsCH2CH:CH2 (25), 5-exo-dig Me2CBrNTsCH2C.tplbond.CH (26), 4-exo-trig Me2CBrCONBnC:C(CH2)5 (28), and 5-endo-trig derivs. Me2CBrCON(CH2Ph)R (R = 1-cyclohexen-1-yl, 27) and MeCHBrCON(CH2Ph)R (R = 1-cyclohexen-1-yl, 38) to give N-heterocycles. The effect of the nature of the support on the stereochem. outcome of the 5-exo cyclization of 25 was probed. Generally, the type of support (e.g., polystyrene, SiO2, or JandaJel) had very little effect upon the efficiency and selectivity of the processes, but the nature of the ligand type immobilized was the important factor. Thus, the 5-exo cyclization of 6 and 24-26 proceeded more rapidly with the PMI ligands, whereas 4-exo cyclizations 28 and 5-endo radical polar crossover reactions 27 and 38 proceeded more efficiently with the JJ-TEDETA ligand [Et2NCH2CH2]2NCH2CH2CO2-JJ (15). The efficiency of the supported ligands was also compared to their solution counterparts. The reusability of P-PMDETA ligand system, Me2NCH2CH2NMeCH2CH2NMeCH2CH2CH2-P (13), was assessed in the cyclization of 6.

IT 878408-78-7DP, alkyl-linked polystyrene-supported
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 878408-78-7 CAPLUS

CN Urea, N'-(3,4-dichlorophenyl)-N,N-bis[2-[[[(3,4-dichlorophenyl)amino]carbonyl]amino]ethyl]- (CA INDEX NAME)



OSC.G 17 THERE ARE 17 CAPLUS RECORDS THAT CITE THIS RECORD (17 CITINGS)
RE.CNT 68 THERE ARE 68 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 2005:823561 CAPLUS
DN 143:229578

TI Preparation of diurea derivatives as inhibitors of the production of pro-inflammatory cytokines, especially interleukin-2 (IL-2)

IN Abramo, Aina Lisbeth; Pettersson, Lars Olof Goeran; Andersson, Kerstin Ingalill; Sundstedt, Asa Anette

PA Active Biotech AB, Swed.

SO PCT Int. Appl., 58 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS CASREACT 143:229578; MARPAT 143:229578

AB The title compds. I [A = (un)substituted Ph, naphthyl, pyridyl, etc.; R1 = dimethylamino, diethylamino, pyrrolidino, etc.; Y = halo, dimethylamino, methoxy, etc.; Z = O, S; n = 1-3; m = 2-4] that block intracellular signal transduction and thereby inhibit the production of pro-inflammatory cytokines, especially interleukin-2 (IL-2) and/or induce apoptosis in activated T-cells, were prepared Thus, reacting 1-isocyanato-4-trifluoromethylbenzene with N1-[2-(pyrrolidin-1-yl)ethyl]ethane-1,2-diamine (preparation given) in CH2Cl2 afforded 80% 1-[2-(pyrrolidin-1-yl)ethyl]-3-(4-trifluoromethylphenyl)-1-{2-[3-(4-trifluoromethylphenyl)ureido]ethyl}urea which showed IC50 of 3 μM against PMA/Ionomycin stimulated IL-2 production in human T-cells. The invention further discloses such a compound I for use as a medicament, the use of said compound I for the manufacturing of a medicament for the treatment of immune disorders which benefit from inhibition of production of IL-2 and other pro-inflammatory cytokines and/or induction of apoptosis in activated T-cells, a pharmaceutical composition comprising said compound I and a method of treatment comprising administration of a pharmaceutically effective amount of said compound I.

IT 1044678-69-4 1044678-72-9 1044678-76-3
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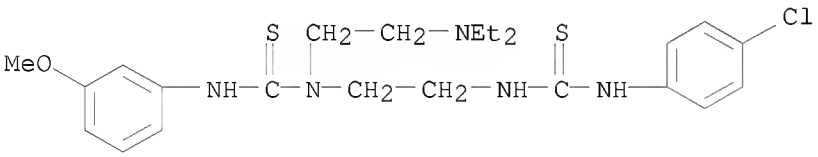
1044679-75-5 1044679-80-2
RL: PRPH (Prophetic)
(Preparation of diurea derivatives as inhibitors of the production of pro-inflammatory cytokines, especially interleukin-2 (IL-2))

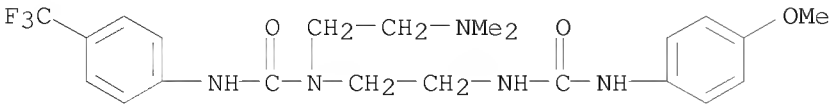
RN 1044678-69-4 CAPLUS

CN INDEX NAME NOT YET ASSIGNED



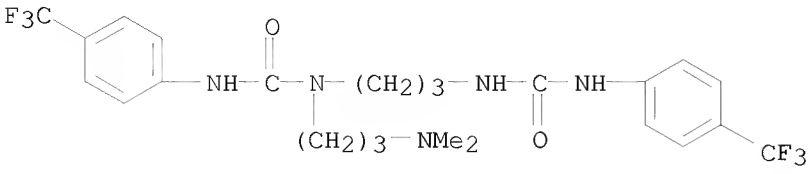
RN 1044678-72-9 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

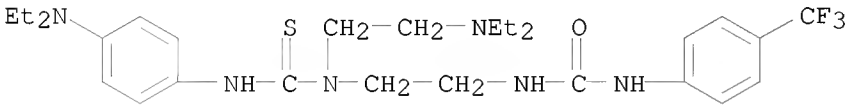


RN 1044678-76-3 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

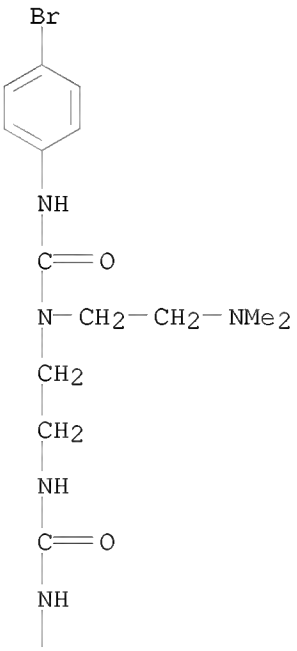


RN 1044678-87-6 CAPLUS
CN Urea, N-[2-[[2-(diethylamino)ethyl][[[4-(diethylamino)phenyl]amino]thioxomethyl]amino]ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

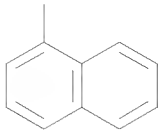


RN 1044678-90-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

PAGE 1-A

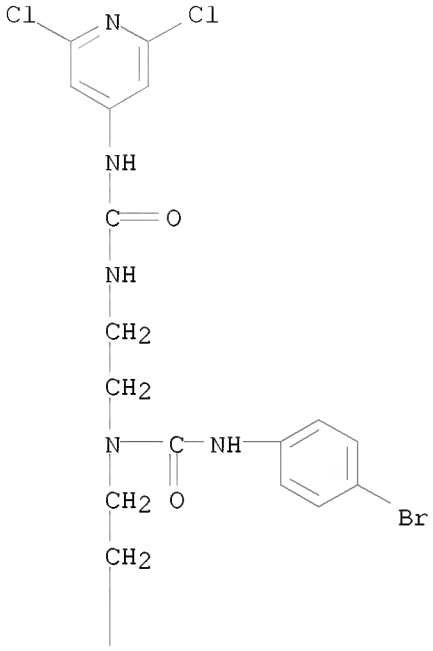


PAGE 2-A

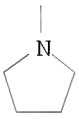


RN 1044678-92-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

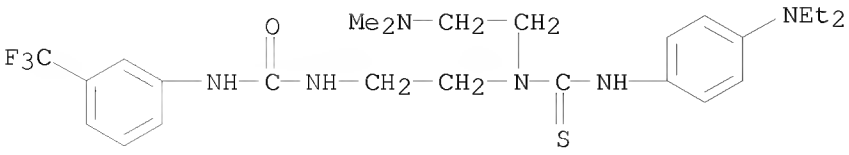
PAGE 1-A



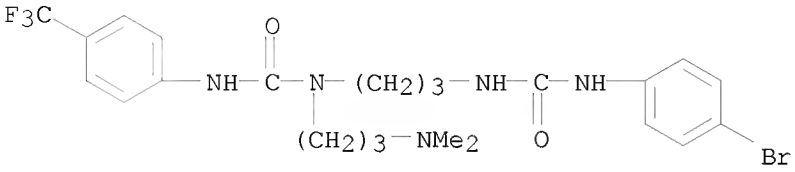
PAGE 2-A



RN 1044678-94-5 CAPLUS
CN Urea, N-[2-[[[[4-(diethylamino)phenyl]amino]thioxomethyl][2-(dimethylamino)ethyl]amino]ethyl]-N'-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)

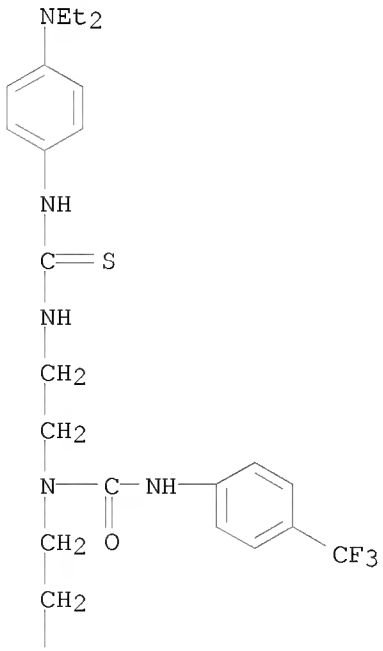


RN 1044678-96-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

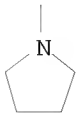


RN 1044679-03-9 CAPLUS
CN Urea, N-[2-[[[[4-(diethylamino)phenyl]amino]thioxomethyl]amino]ethyl]-N-[2-(1-pyrrolidinyl)ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

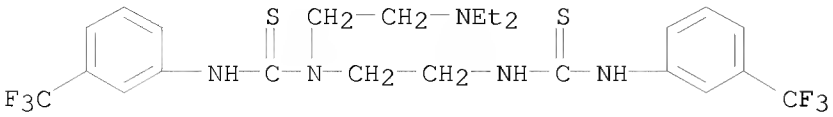
PAGE 1-A



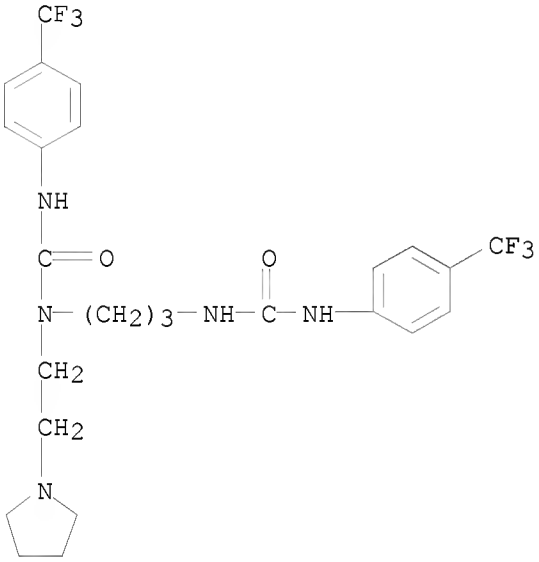
PAGE 2-A



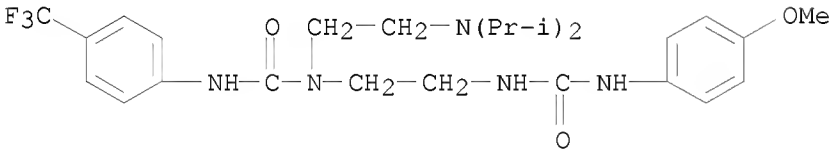
RN 1044679-05-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



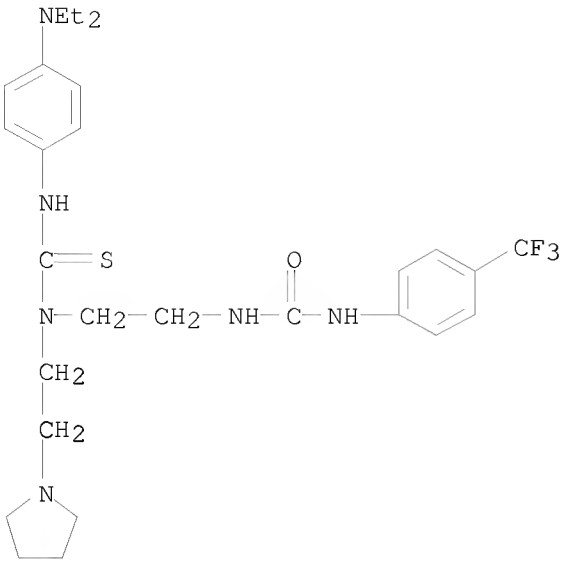
RN 1044679-08-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



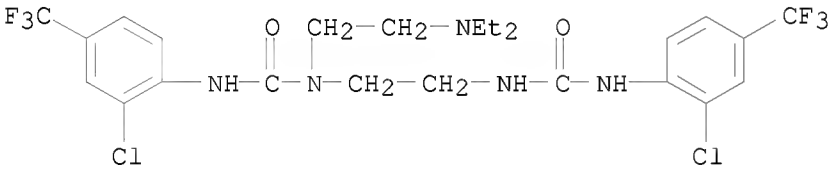
RN 1044679-13-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



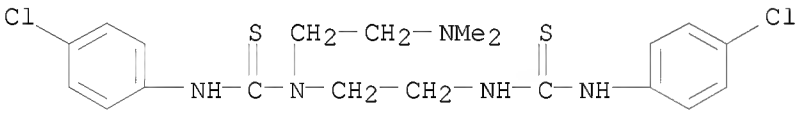
RN 1044679-22-2 CAPLUS
CN Urea, N-[2-[[[[4-(diethylamino)phenyl]amino]thioxomethyl][2-(1-pyrrolidinyl)ethyl]amino]ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



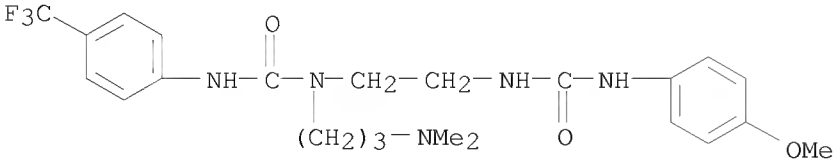
RN 1044679-24-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



RN 1044679-26-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



RN 1044679-29-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



RN 1044679-30-2 CAPLUS
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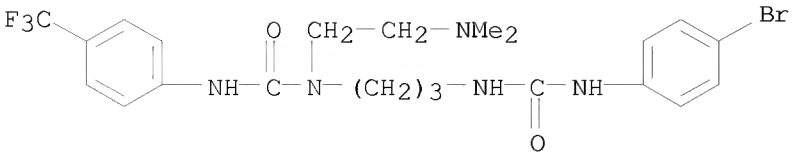
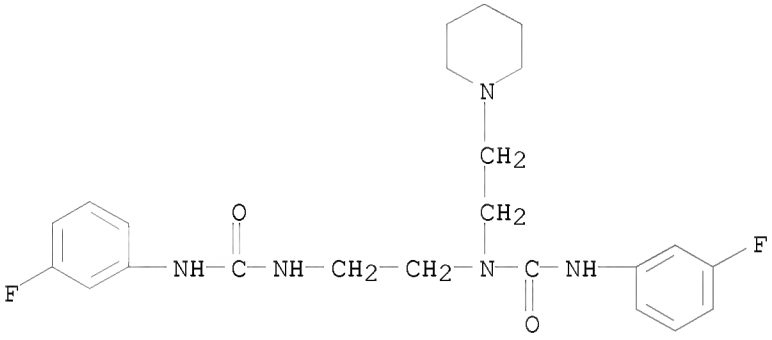
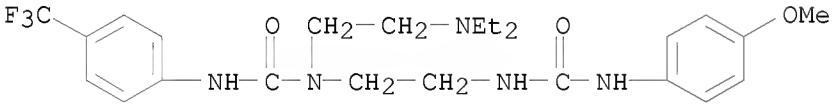


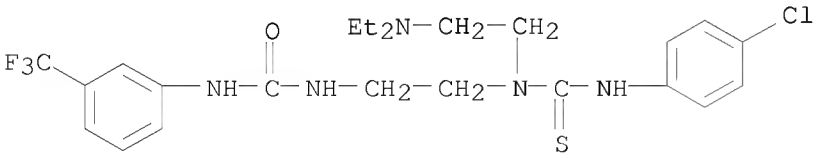
RN 1044679-33-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



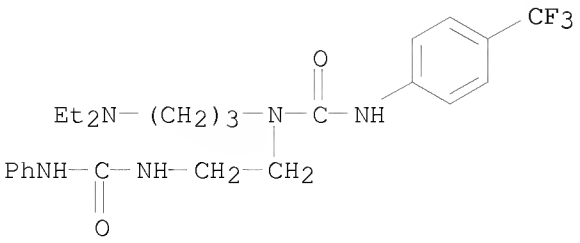
RN 1044679-37-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



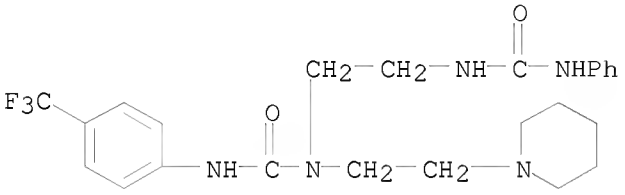
RN 1044679-40-4 CAPLUS
CN Urea, N-[2-[[[(4-chlorophenyl)amino]thioxomethyl][2-(diethylamino)ethyl]amino]ethyl]-N'-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



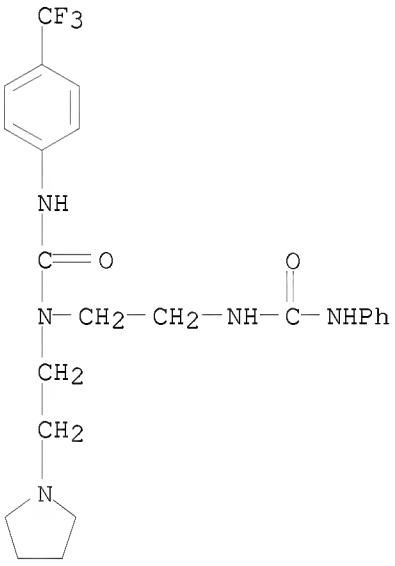
RN 1044679-44-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



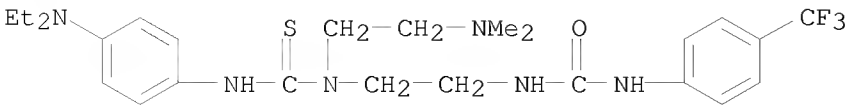
RN 1044679-45-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



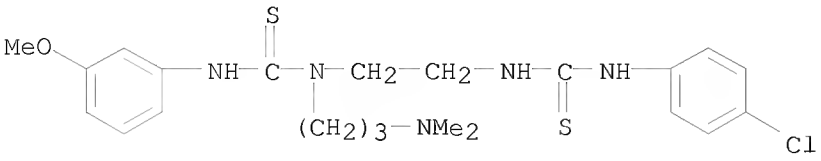
RN 1044679-46-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



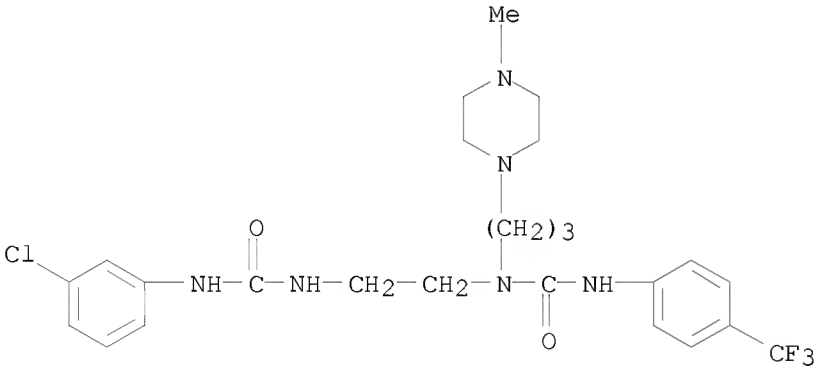
RN 1044679-51-7 CAPLUS
CN Urea, N-[2-[[[[4-(diethylamino)phenyl]amino]thioxomethyl][2-(dimethylamino)ethyl]amino]ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



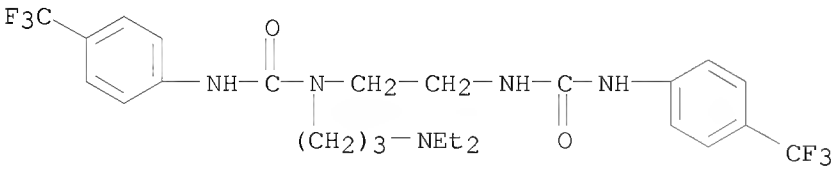
RN 1044679-53-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



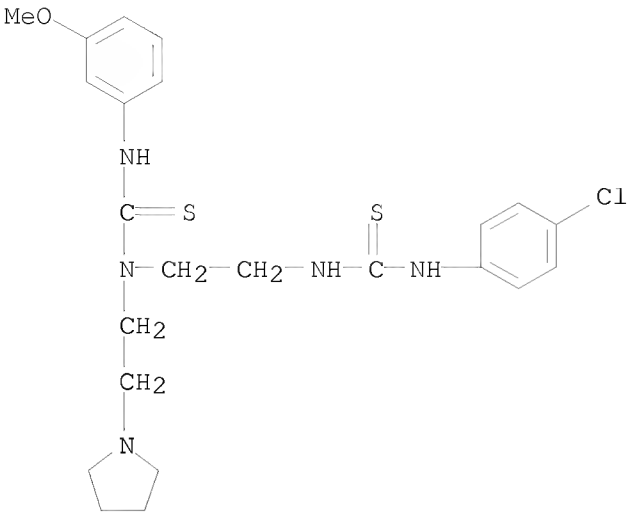
RN 1044679-54-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



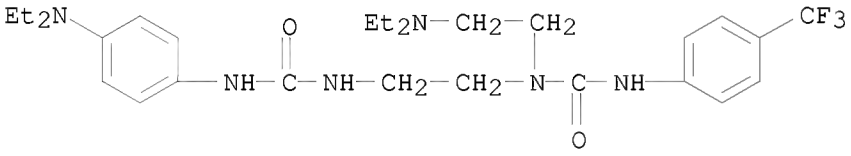
RN 1044679-58-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



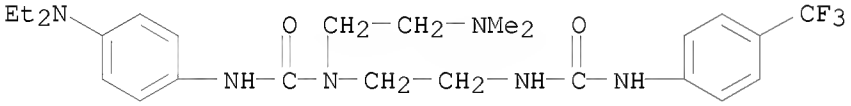
RN 1044679-60-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



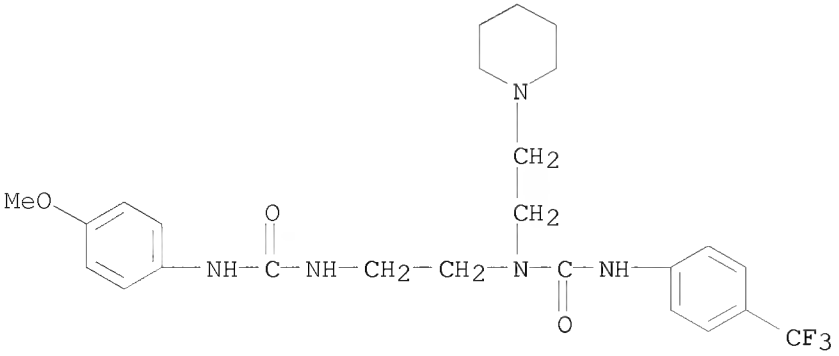
RN 1044679-61-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



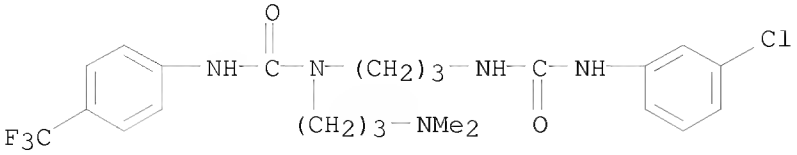
RN 1044679-63-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



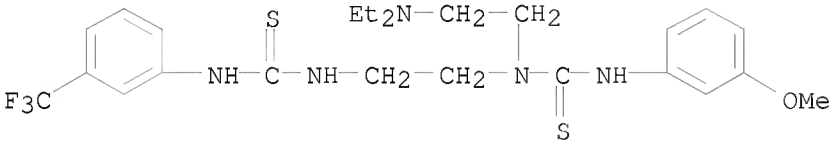
RN 1044679-65-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



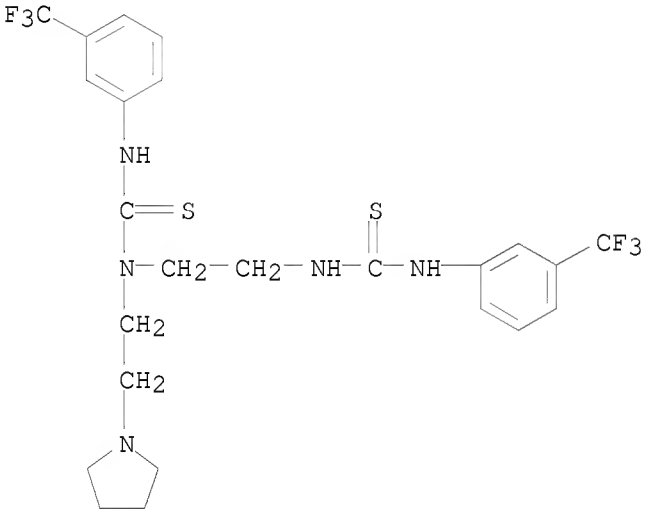
RN 1044679-67-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



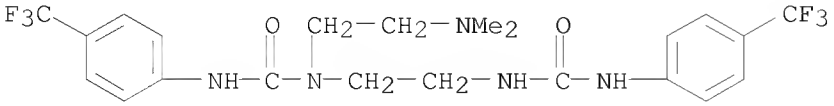
RN 1044679-68-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



RN 1044679-75-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



RN 1044679-80-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



IT 862807-90-7P 862807-92-9P 862807-94-1P

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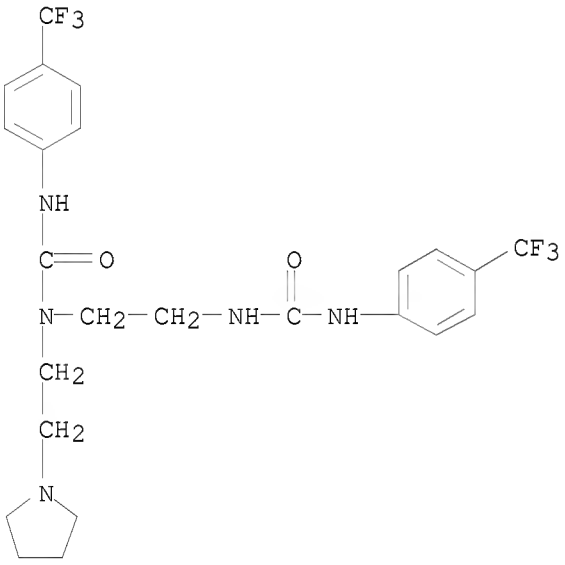
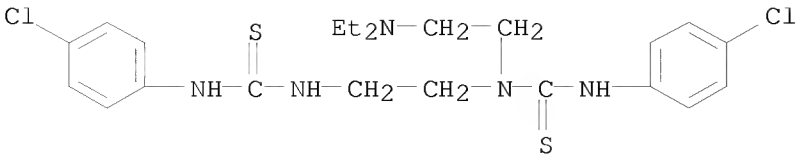
862809-05-0P 862809-09-4P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of diurea derivs. as inhibitors of the production of pro-inflammatory cytokines, especially interleukin-2 (IL-2))

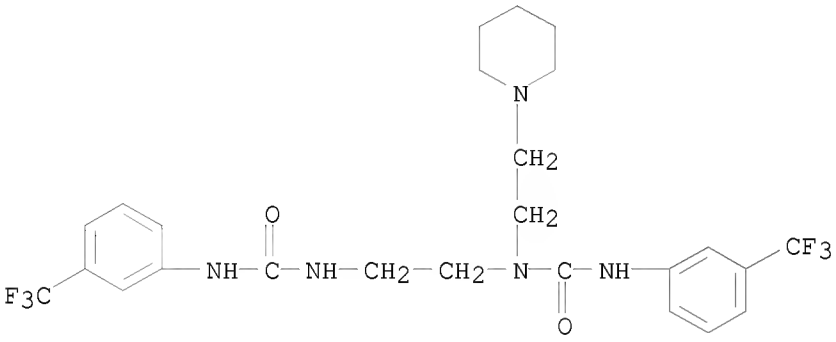
RN 862807-90-7 CAPLUS
CN Urea, N-[2-[[2-(1-pyrrolidinyl)ethyl][[[4-(trifluoromethyl)phenyl]amino]carbonyl]amino]ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



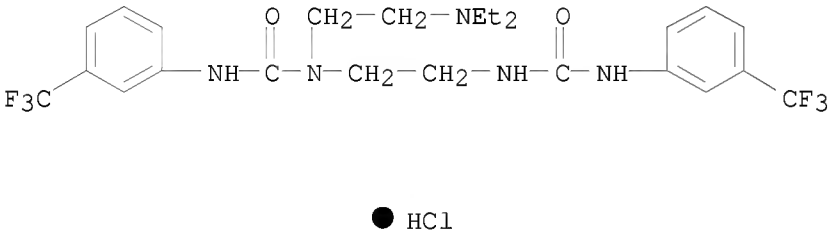
RN 862807-92-9 CAPLUS
CN Thiourea, N'-(4-chlorophenyl)-N-[2-[[[(4-chlorophenyl)amino]thioxomethyl]amino]ethyl]-N-[2-(diethylamino)ethyl]- (CA INDEX NAME)



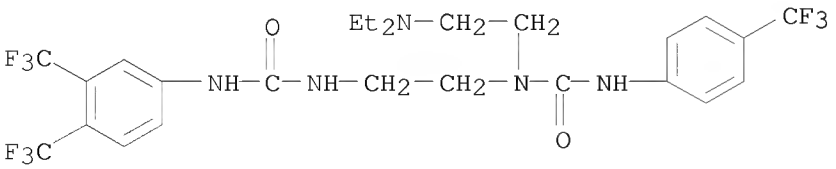
RN 862807-94-1 CAPLUS
CN Urea, N-[2-[[2-(1-piperidinyl)ethyl][[[3-(trifluoromethyl)phenyl]amino]carbonyl]amino]ethyl]-N'-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 862807-96-3 CAPLUS
CN Urea, N-[2-[[2-(diethylamino)ethyl][[[3-(trifluoromethyl)phenyl]amino]carbonyl]amino]ethyl]-N'-[3-(trifluoromethyl)phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

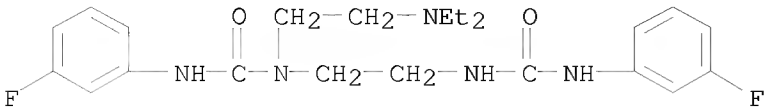


RN 862807-98-5 CAPLUS
CN Urea, N-[2-[[[[3,4-bis(trifluoromethyl)phenyl]amino]carbonyl]amino]ethyl]-N-[2-(diethylamino)ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



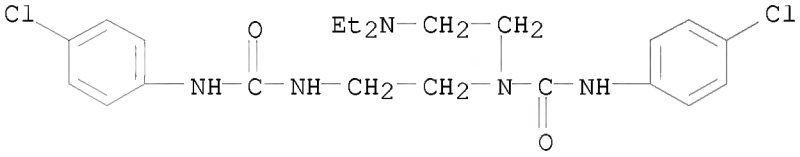
RN 862808-00-2 CAPLUS

CN Urea, N-[2-[[2-(diethylamino)ethyl][[(3-fluorophenyl)amino]carbonyl]amino]ethyl]-N'-(3-fluorophenyl)-, hydrochloride (1:1) (CA INDEX NAME)

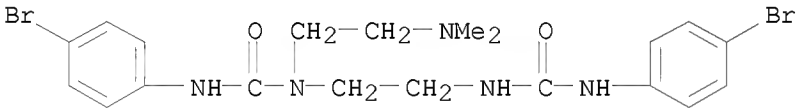


● HCl

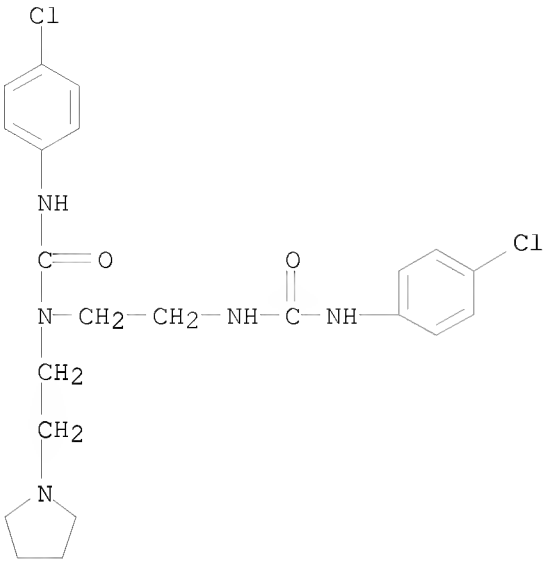
RN 862808-02-4 CAPLUS
CN Urea, N'-(4-chlorophenyl)-N-[2-[[[(4-chlorophenyl)amino]carbonyl]amino]ethyl]-N-[2-(diethylamino)ethyl]- (CA INDEX NAME)



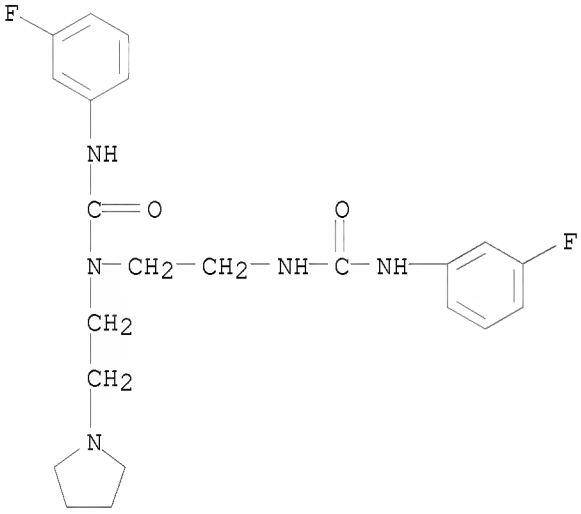
RN 862808-04-6 CAPLUS
CN Urea, N'-(4-bromophenyl)-N-[2-[[[(4-bromophenyl)amino]carbonyl]amino]ethyl]-N-[2-(dimethylamino)ethyl]- (CA INDEX NAME)



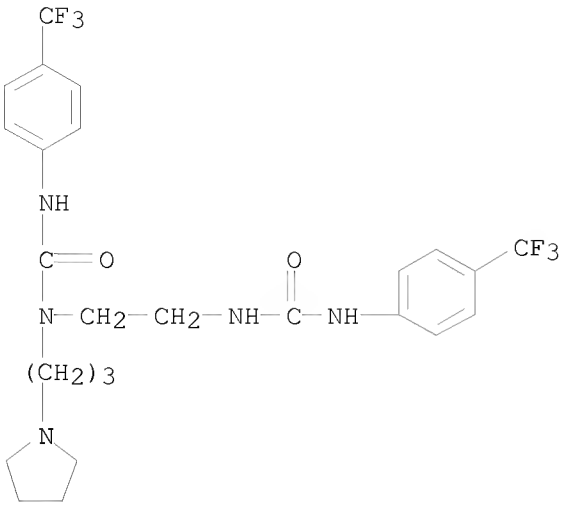
RN 862808-06-8 CAPLUS
CN Urea, N'-(4-chlorophenyl)-N-[2-[[[(4-chlorophenyl)amino]carbonyl]amino]ethyl]-N-[2-(1-pyrrolidinyl)ethyl]- (CA INDEX NAME)



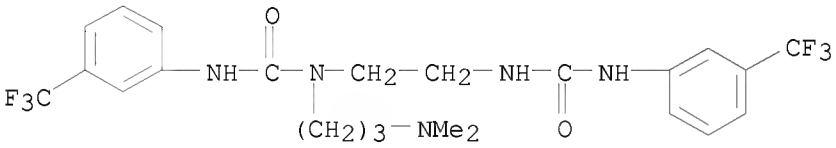
RN 862808-08-0 CAPLUS
CN Urea, N'-(3-fluorophenyl)-N-[2-[[[(3-fluorophenyl)amino]carbonyl]amino]ethyl]-N-[2-(1-pyrrolidinyl)ethyl]- (CA INDEX NAME)



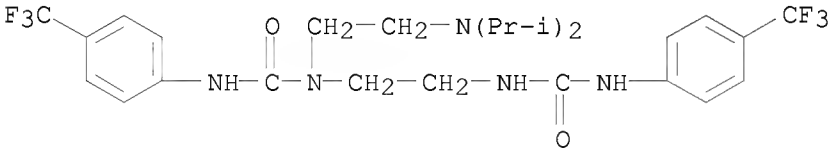
RN 862808-10-4 CAPLUS
CN Urea, N-[2-[[3-(1-pyrrolidinyl)propyl][[[4-(trifluoromethyl)phenyl]amino]carbonyl]amino]ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



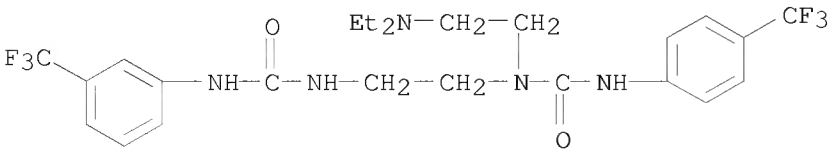
RN 862808-12-6 CAPLUS
CN Urea, N-[2-[[3-(dimethylamino)propyl][[[3-(trifluoromethyl)phenyl]amino]carbonyl]amino]ethyl]-N'-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



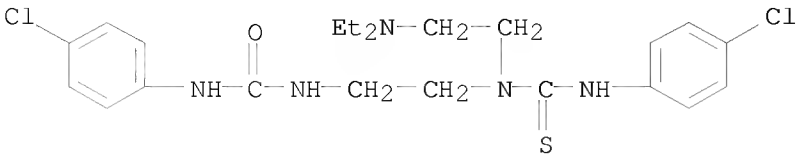
RN 862808-14-8 CAPLUS
CN Urea, N-[2-[[2-[bis(1-methylethyl)amino]ethyl][[[4-(trifluoromethyl)phenyl]amino]carbonyl]amino]ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



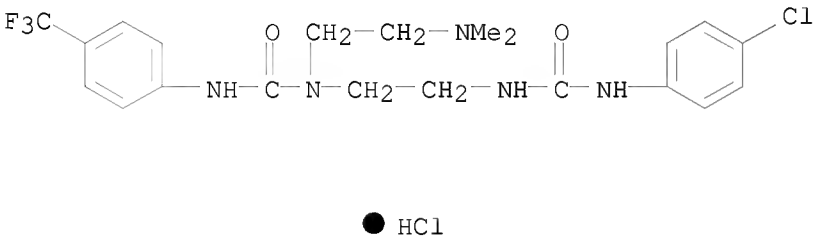
RN 862808-18-2 CAPLUS
CN Urea, N-[2-[[2-(diethylamino)ethyl][[[4-(trifluoromethyl)phenyl]amino]carbonyl]amino]ethyl]-N'-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



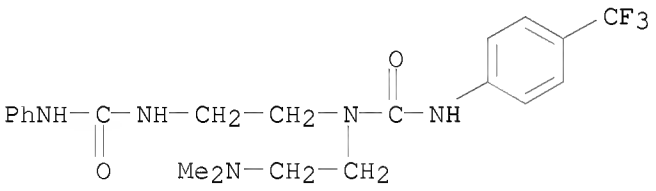
RN 862808-20-6 CAPLUS
CN Urea, N-(4-chlorophenyl)-N'-[2-[[[(4-chlorophenyl)amino]thioxomethyl][2-(diethylamino)ethyl]amino]ethyl]- (CA INDEX NAME)



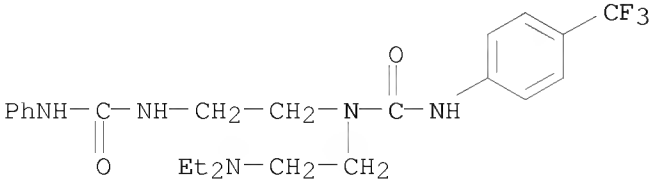
RN 862808-22-8 CAPLUS
CN Urea, N-[2-[[[(4-chlorophenyl)amino]carbonyl]amino]ethyl]-N-[2-(dimethylamino)ethyl]-N'-[4-(trifluoromethyl)phenyl]-, hydrochloride (1:1) (CA INDEX NAME)



RN 862808-24-0 CAPLUS
CN Urea, N-[2-(dimethylamino)ethyl]-N-[2-[[(phenylamino)carbonyl]amino]ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

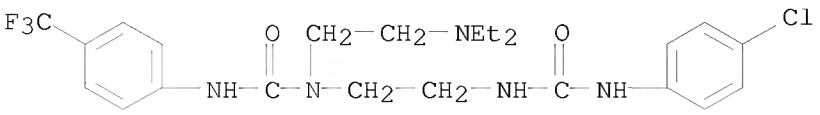


RN 862808-26-2 CAPLUS
CN Urea, N-[2-(diethylamino)ethyl]-N-[2-[[(phenylamino)carbonyl]amino]ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

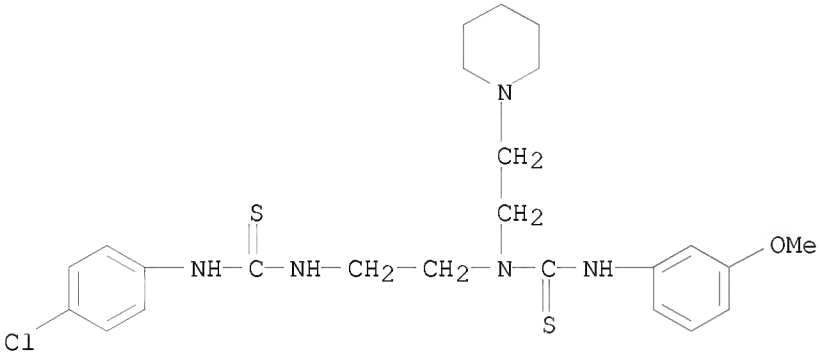


RN 862808-28-4 CAPLUS

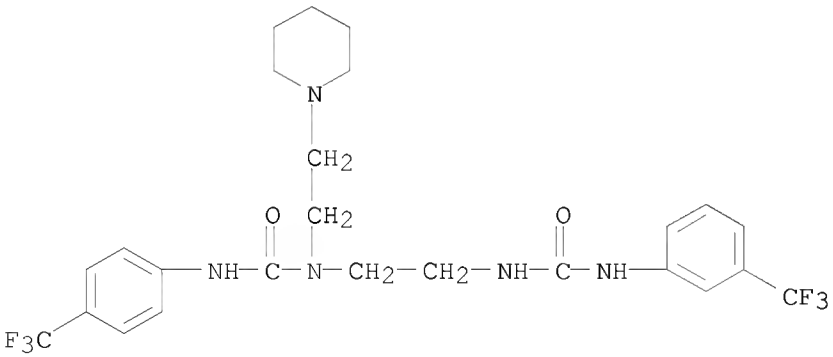
CN Urea, N-[2-[[[(4-chlorophenyl)amino]carbonyl]amino]ethyl]-N-[2-(diethylamino)ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



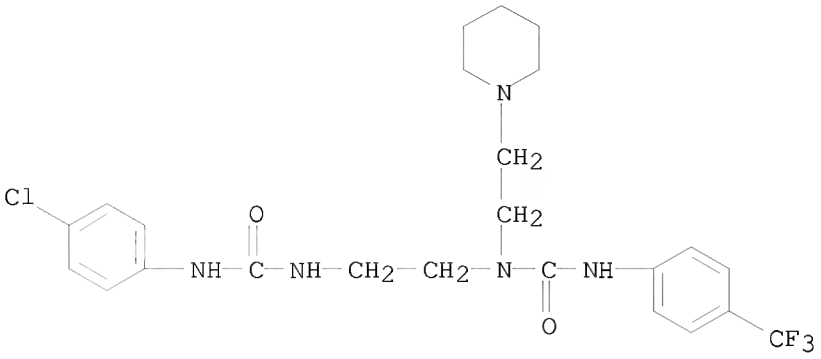
RN 862808-30-8 CAPLUS
CN Thiourea, N-[2-[[[(4-chlorophenyl)amino]thioxomethyl]amino]ethyl]-N'-(3-methoxyphenyl)-N-[2-(1-piperidinyl)ethyl]- (CA INDEX NAME)



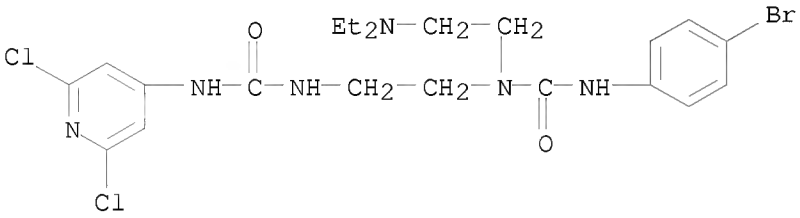
RN 862808-32-0 CAPLUS
CN Urea, N-[2-[[2-(1-piperidinyl)ethyl][[[4-(trifluoromethyl)phenyl]amino]carbonyl]amino]ethyl]-N'-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



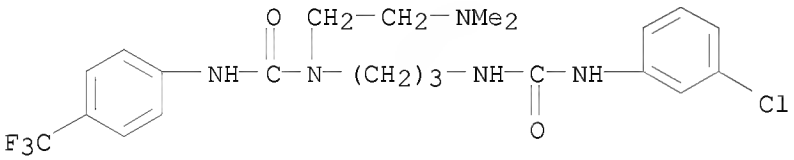
RN 862808-34-2 CAPLUS
CN Urea, N-[2-[[[(4-chlorophenyl)amino]carbonyl]amino]ethyl]-N-[2-(1-piperidinyl)ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 862808-38-6 CAPLUS
CN Urea, N-[2-[[[(4-bromophenyl)amino]carbonyl][2-(diethylamino)ethyl]amino]ethyl]-N'-(2,6-dichloro-4-pyridinyl)- (CA INDEX NAME)



RN 862808-40-0 CAPLUS
CN Urea, N-[3-[[[(3-chlorophenyl)amino]carbonyl]amino]propyl]-N-[2-(dimethylamino)ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 862808-42-2 CAPLUS
CN Urea, N-[2-(diethylamino)ethyl]-N-[2-[[(1-naphthalenylamino)carbonyl]amino]ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

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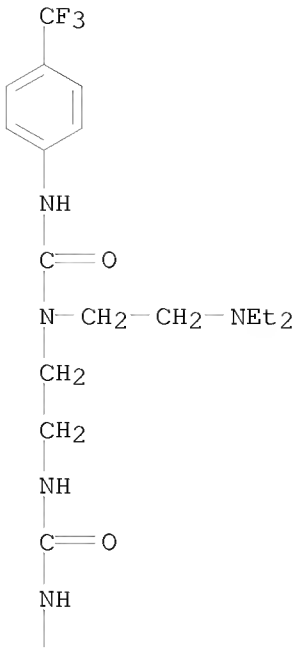

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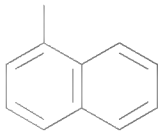

RN 862808-44-4 CAPLUS
CN Urea, N-[2-[[[(4-bromophenyl)amino]carbonyl][2-(diethylamino)ethyl]amino]ethyl]-N'-1-naphthalenyl- (CA INDEX NAME)

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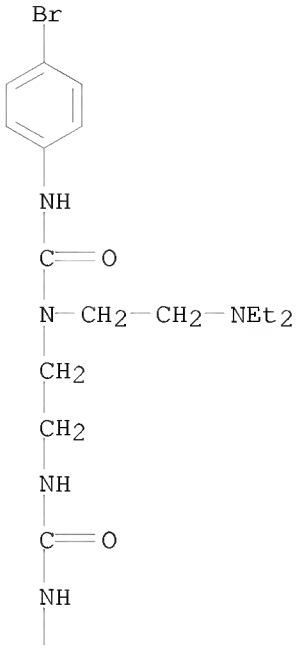

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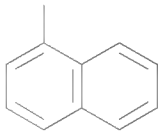
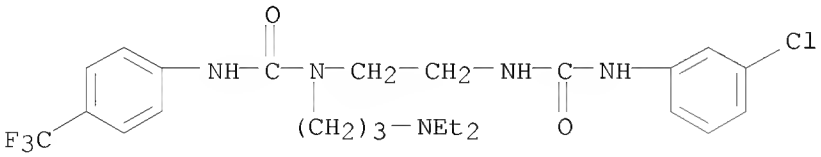
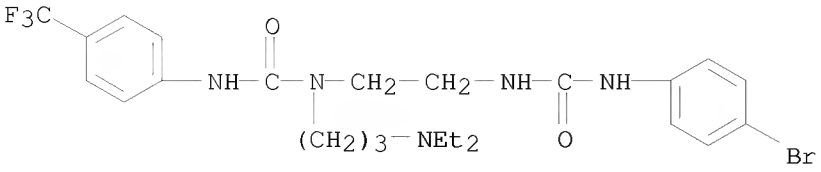


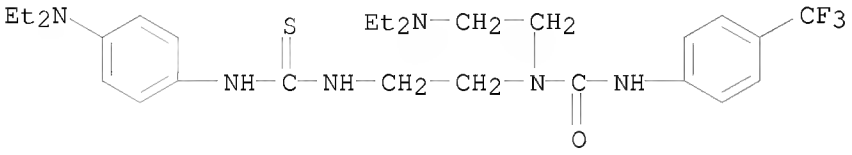
RN 862808-46-6 CAPLUS
CN Urea, N-[2-[[[(3-chlorophenyl)amino]carbonyl]amino]ethyl]-N-[3-(diethylamino)propyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



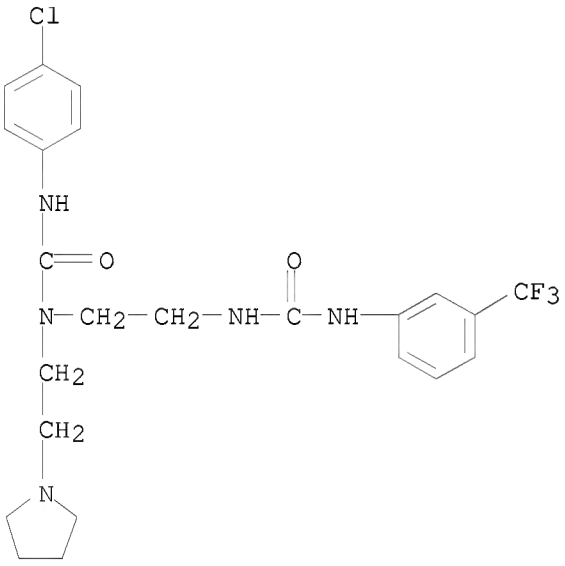
RN 862808-48-8 CAPLUS
CN Urea, N-[2-[[[(4-bromophenyl)amino]carbonyl]amino]ethyl]-N-[3-(diethylamino)propyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



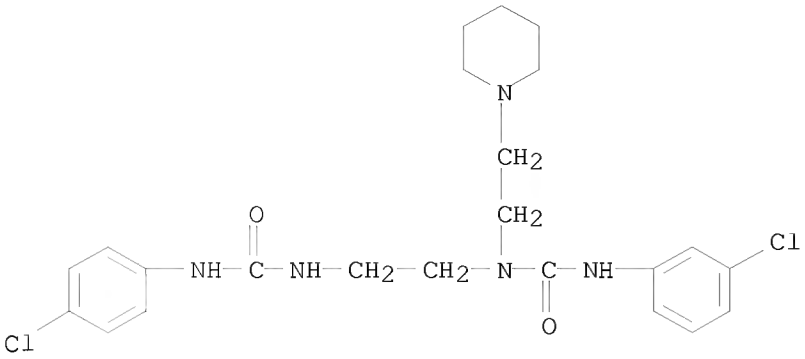
RN 862808-50-2 CAPLUS
CN Urea, N-[2-(diethylamino)ethyl]-N-[2-[[[[4-(diethylamino)phenyl]amino]thioxomethyl]amino]ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



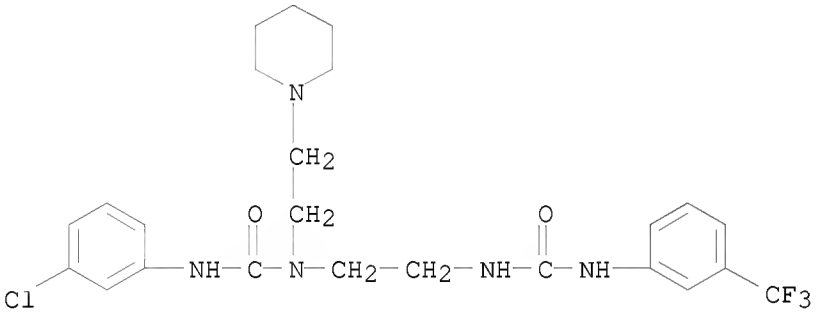
RN 862808-52-4 CAPLUS
CN Urea, N-[2-[[[(4-chlorophenyl)amino]carbonyl][2-(1-pyrrolidinyl)ethyl]amino]ethyl]-N'-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



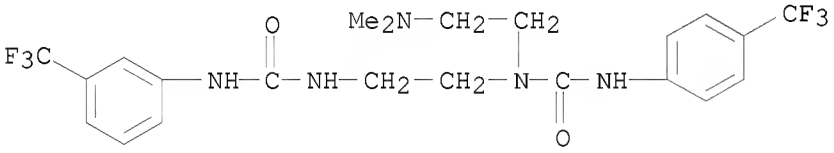
RN 862808-54-6 CAPLUS
CN Urea, N'-(3-chlorophenyl)-N-[2-[[[(4-chlorophenyl)amino]carbonyl]amino]ethyl]-N-[2-(1-piperidinyl)ethyl]- (CA INDEX NAME)



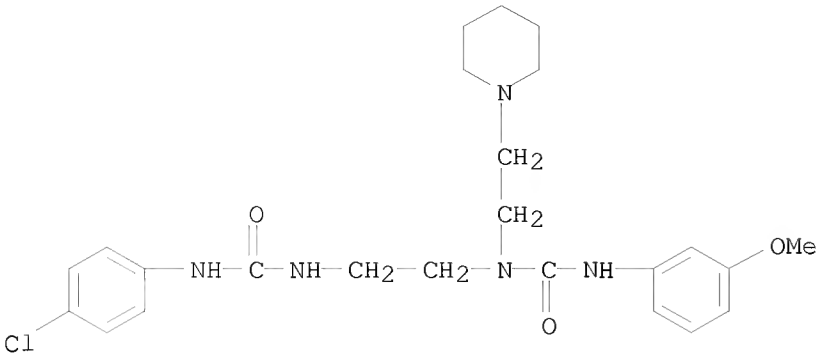
RN 862808-56-8 CAPLUS
CN Urea, N-[2-[[[(3-chlorophenyl)amino]carbonyl][2-(1-piperidinyl)ethyl]amino]ethyl]-N'-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



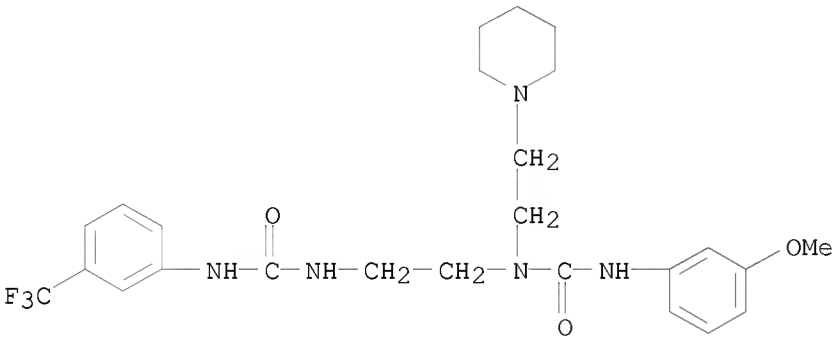
RN 862808-58-0 CAPLUS
CN Urea, N-[2-[[2-(dimethylamino)ethyl][[[4-(trifluoromethyl)phenyl]amino]carbonyl]amino]ethyl]-N'-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 862808-60-4 CAPLUS
CN Urea, N-[2-[[[(4-chlorophenyl)amino]carbonyl]amino]ethyl]-N'-(3-methoxyphenyl)-N-[2-(1-piperidinyl)ethyl]- (CA INDEX NAME)



RN 862808-62-6 CAPLUS
CN Urea, N-[2-[[[(3-methoxyphenyl)amino]carbonyl][2-(1-piperidinyl)ethyl]amino]ethyl]-N'-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 862808-64-8 CAPLUS
CN Urea, N-[2-[[2-(1-pyrrolidinyl)ethyl][[[4-(trifluoromethyl)phenyl]amino]carbonyl]amino]ethyl]-N'-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)

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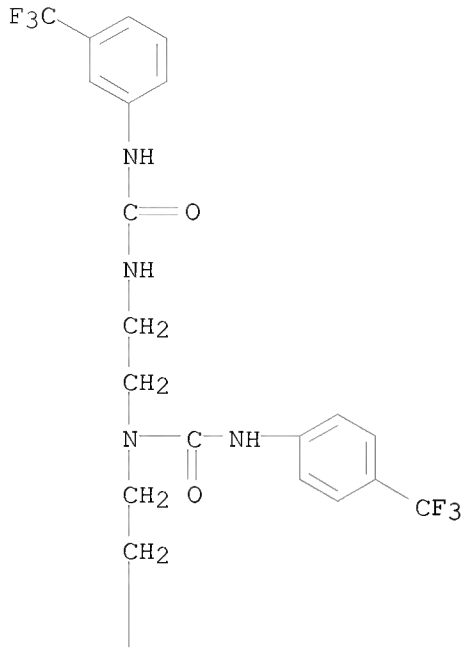

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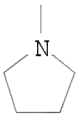
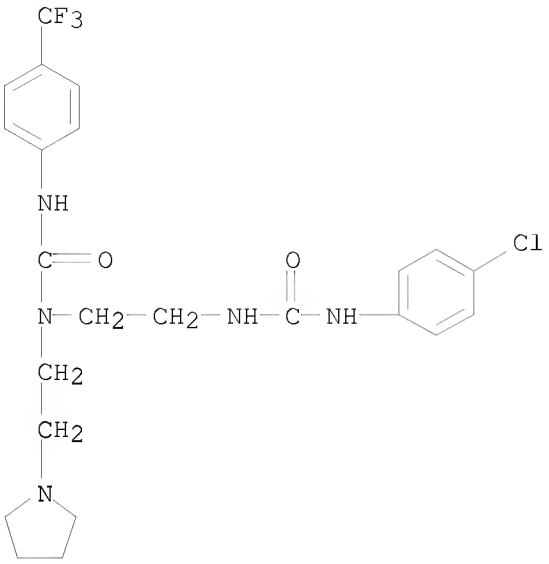
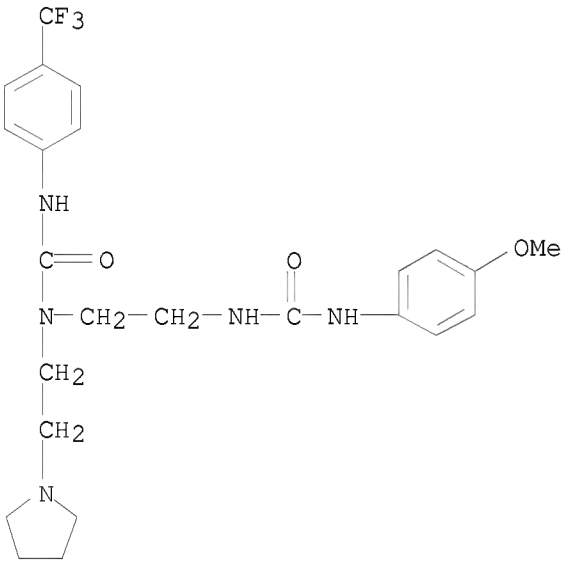


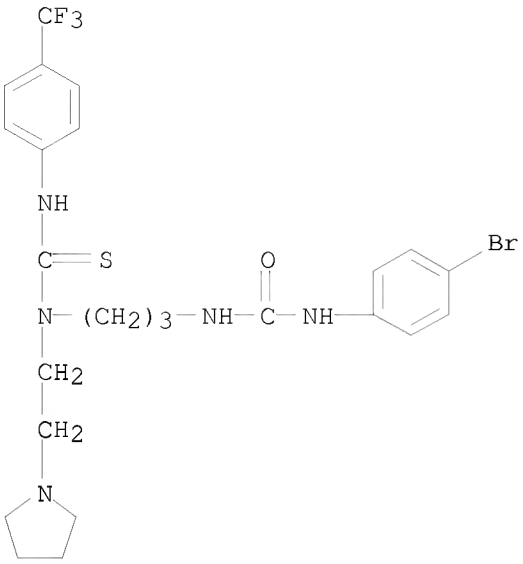
RN 862808-66-0 CAPLUS
CN Urea, N-[2-[[[(4-chlorophenyl)amino]carbonyl]amino]ethyl]-N-[2-(1-pyrrolidinyl)ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



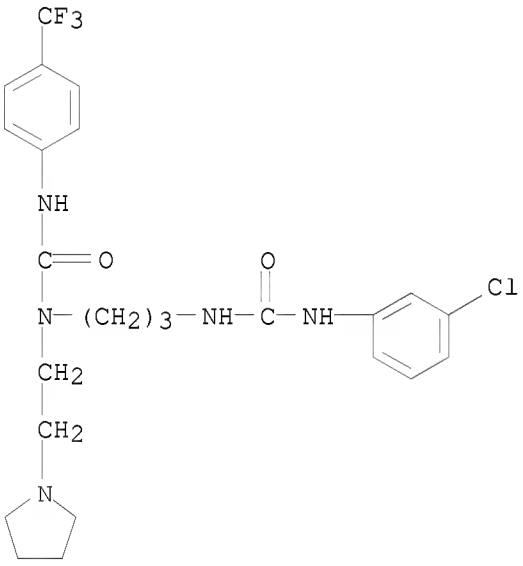
RN 862808-68-2 CAPLUS
CN Urea, N-[2-[[[(4-methoxyphenyl)amino]carbonyl]amino]ethyl]-N-[2-(1-pyrrolidinyl)ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



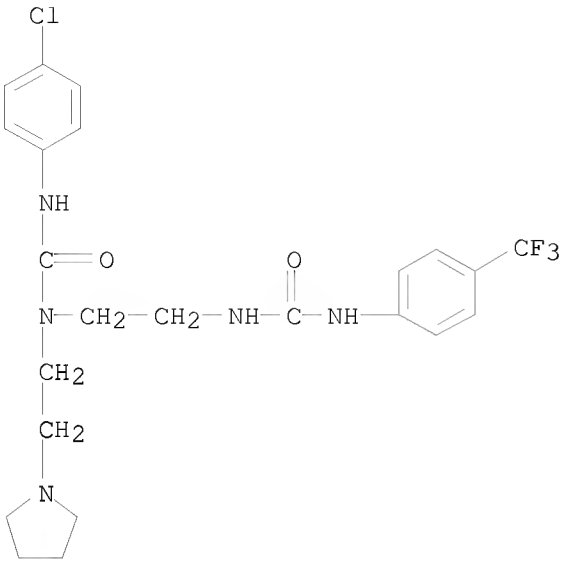
RN 862808-70-6 CAPLUS
CN Urea, N-(4-bromophenyl)-N'-[3-[[2-(1-pyrrolidinyl)ethyl][thioxo[[4-(trifluoromethyl)phenyl]amino]methyl]amino]propyl]- (CA INDEX NAME)



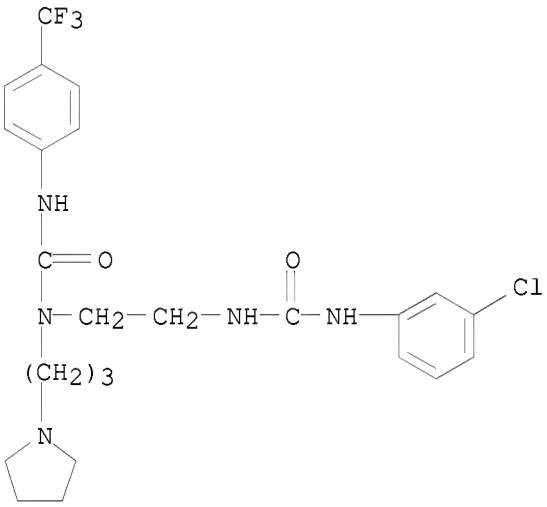
RN 862808-72-8 CAPLUS
CN Urea, N-[3-[[[(3-chlorophenyl)amino]carbonyl]amino]propyl]-N-[2-(1-pyrrolidinyl)ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



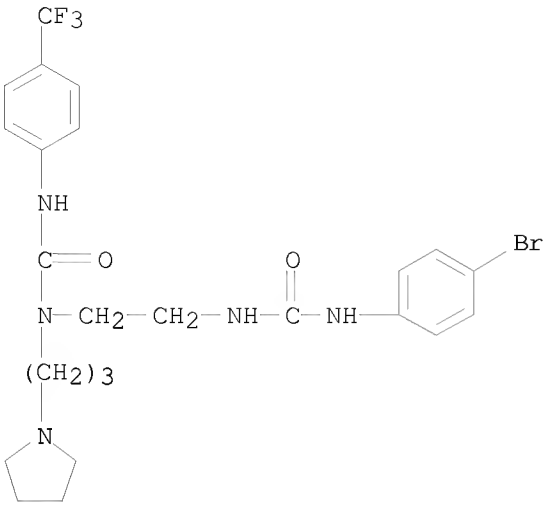
RN 862808-74-0 CAPLUS
CN Urea, N-[2-[[[(4-chlorophenyl)amino]carbonyl][2-(1-pyrrolidinyl)ethyl]amino]ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



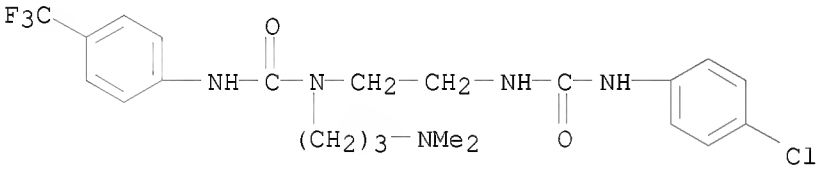
RN 862808-76-2 CAPLUS
CN Urea, N-[2-[[[(3-chlorophenyl)amino]carbonyl]amino]ethyl]-N-[3-(1-pyrrolidinyl)propyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



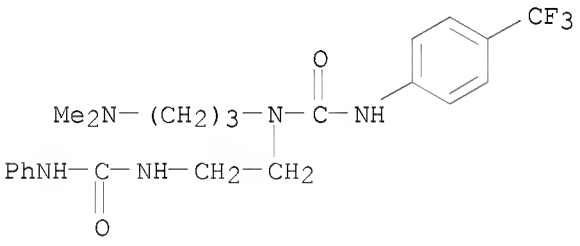
RN 862808-78-4 CAPLUS
CN Urea, N-[2-[[[(4-bromophenyl)amino]carbonyl]amino]ethyl]-N-[3-(1-pyrrolidinyl)propyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



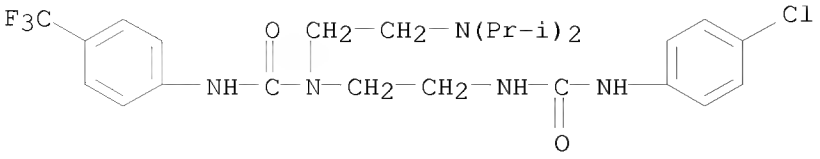
RN 862808-80-8 CAPLUS
CN Urea, N-[2-[[[(4-chlorophenyl)amino]carbonyl]amino]ethyl]-N-[3-(dimethylamino)propyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



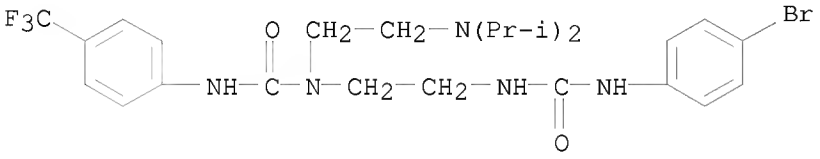
RN 862808-82-0 CAPLUS
CN Urea, N-[3-(dimethylamino)propyl]-N-[2-[[(phenylamino)carbonyl]amino]ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



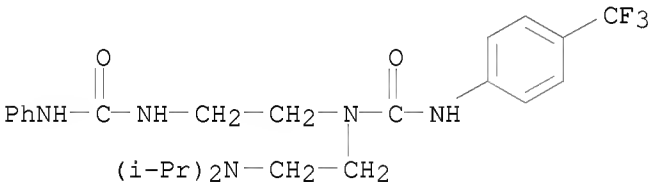
RN 862808-84-2 CAPLUS
CN Urea, N-[2-[bis(1-methylethyl)amino]ethyl]-N-[2-[[[(4-chlorophenyl)amino]carbonyl]amino]ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 862808-86-4 CAPLUS
CN Urea, N-[2-[bis(1-methylethyl)amino]ethyl]-N-[2-[[[(4-bromophenyl)amino]carbonyl]amino]ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

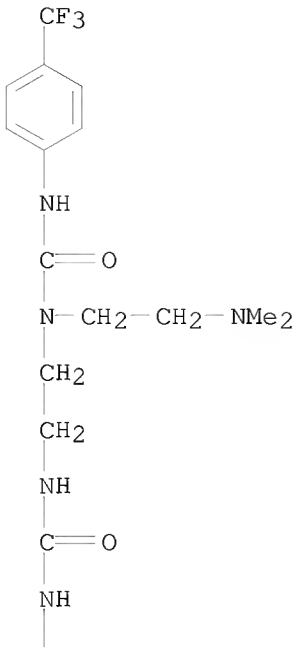


RN 862808-88-6 CAPLUS
CN Urea, N-[2-[bis(1-methylethyl)amino]ethyl]-N-[2-[[(phenylamino)carbonyl]amino]ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

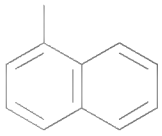


RN 862808-90-0 CAPLUS
CN Urea, N-[2-(dimethylamino)ethyl]-N-[2-[[(1-naphthalenylamino)carbonyl]amino]ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

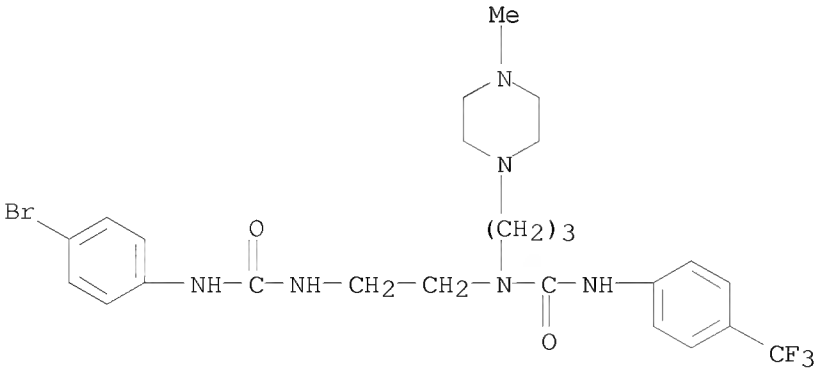
PAGE 1-A



PAGE 2-A

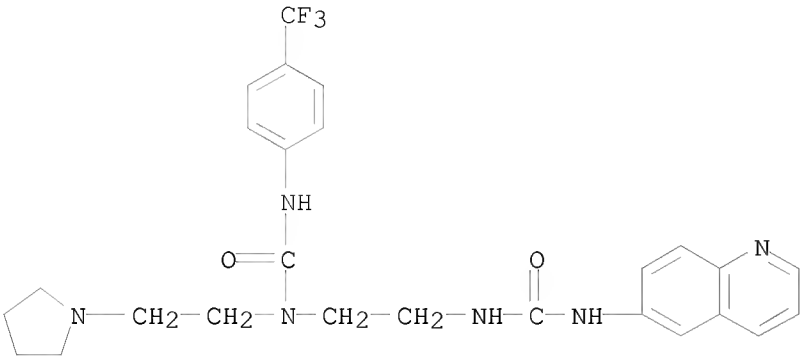


RN 862808-92-2 CAPLUS
CN Urea, N-[2-[[[(4-bromophenyl)amino]carbonyl]amino]ethyl]-N-[3-(4-methyl-1-piperazinyl)propyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

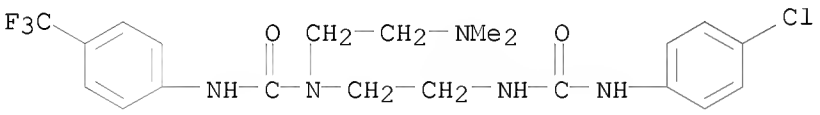


RN 862808-94-4 CAPLUS

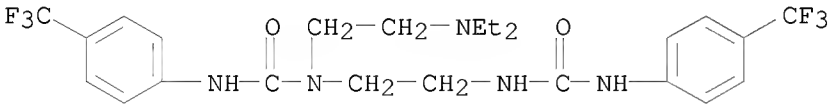
CN Urea, N-[2-(1-pyrrolidinyl)ethyl]-N-[2-[[(6-quinolinylamino)carbonyl]amino]ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 862809-05-0 CAPLUS
CN Urea, N-[2-[[[(4-chlorophenyl)amino]carbonyl]amino]ethyl]-N-[2-(dimethylamino)ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



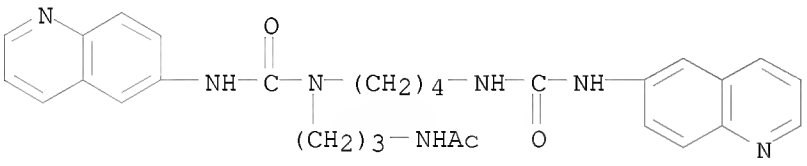
RN 862809-09-4 CAPLUS
CN Urea, N-[2-[[2-(diethylamino)ethyl][[[4-(trifluoromethyl)phenyl]amino]carbonyl]amino]ethyl]-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



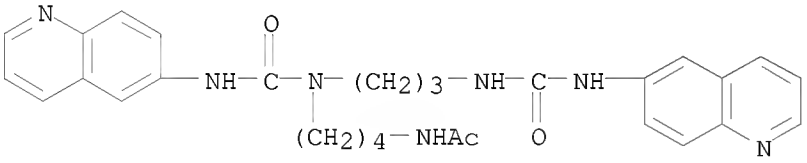
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 2002:865481 CAPLUS
DN 139:303935
TI High-resolution reversed-phase high-performance liquid chromatography analysis of polyamines and their monoacetyl conjugates by fluorescence detection after derivatization with N-hydroxysuccinimidyl 6-quinolinyl carbamate. [Erratum to document cited in CA127:78027]
AU Weiss, Thomas; Bernhardt, Gunther; Buschauer, Armin; Jauch, Karl-Walter; Zirngibl, Hubert
CS Dep. Surgery, Univ. Regensburg, Regensburg, D-93042, Germany
SO Analytical Biochemistry (2002), 311(1), 100
CODEN: ANBCA2; ISSN: 0003-2697

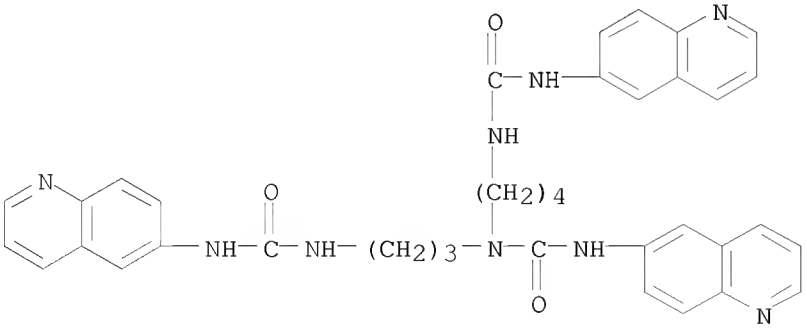
PB Elsevier Science
DT Journal
LA English
AB In Figures 3, 5, and 7, the compound nos. for spermine 11 and the internal standard (IS) 1,7-diaminoheptane 12 were erroneously exchanged. In Table 3, the internal standard (IS) 1,7-diaminoheptane was designated compound 13 instead of 12.
IT 191729-96-1P 191729-97-2P 191729-98-3P
191729-99-4P 191730-00-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(high-resolution reversed-phase HPLC anal. of polyamines and their monoacetyl conjugates by fluorescence detection after derivatization with N-hydroxysuccinimidyl 6-quinolinyl carbamate (Erratum))
RN 191729-96-1 CAPLUS
CN Acetamide, N-[3-[[(6-quinolinylamino)carbonyl][4-[[(6-quinolinylamino)carbonyl]amino]butyl]amino]propyl]- (CA INDEX NAME)



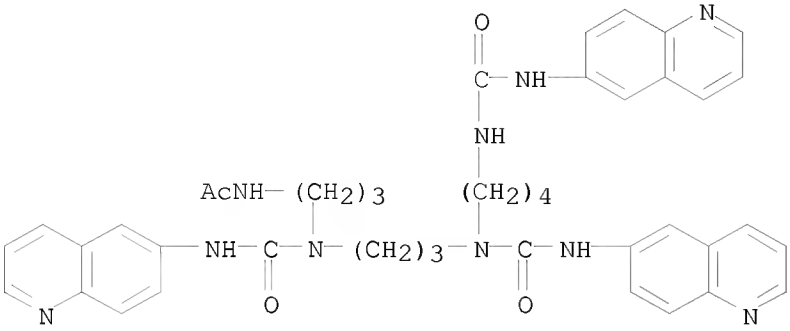
RN 191729-97-2 CAPLUS
CN Acetamide, N-[4-[[(6-quinolinylamino)carbonyl][3-[[(6-quinolinylamino)carbonyl]amino]propyl]amino]butyl]- (CA INDEX NAME)



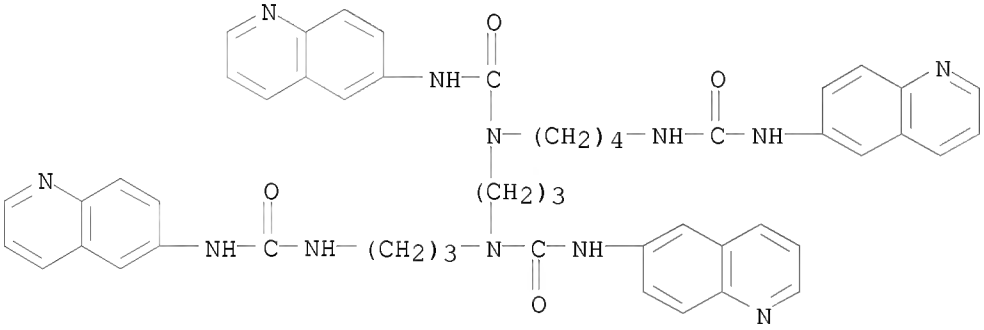
RN 191729-98-3 CAPLUS
CN Urea, N'-6-quinolinyl-N-[4-[[(6-quinolinylamino)carbonyl]amino]butyl]-N-[3-[[(6-quinolinylamino)carbonyl]amino]propyl]- (CA INDEX NAME)



RN 191729-99-4 CAPLUS
CN 2,7,11,15-Tetraazaheptadecanamide, 16-oxo-N-6-quinolinyl-7,11-bis[(6-quinolinylamino)carbonyl]- (CA INDEX NAME)



RN 191730-00-4 CAPLUS
CN 2,6,10,15-Tetraazahexadecanediamide, N1,N16-di-6-quinolinyl-6,10-bis[(6-quinolinylamino)carbonyl]- (CA INDEX NAME)

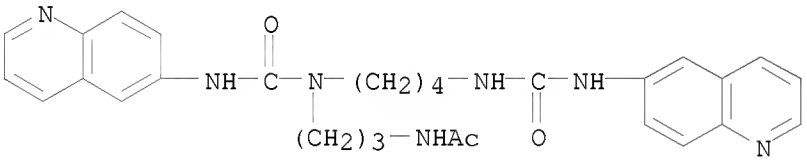


L4 ANSWER 7 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1997:342994 CAPLUS
DN 127:78027
OREF 127:14857a
TI High-resolution reversed-phase high-performance liquid chromatography analysis of polyamines and their monoacetyl conjugates by fluorescence detection after derivatization with N-hydroxysuccinimidyl 6-quinolinyl carbamate
AU Weiss, Thomas; Bernhardt, Gunther; Buschauer, Armin; Jauch, Karl-Walter; Zirngibl, Hubert
CS Dep. Surgery, Univ. Regensburg, Regensburg, D-93042, Germany
SO Analytical Biochemistry (1997), 247(2), 294-304
CODEN: ANBCA2; ISSN: 0003-2697
PB Academic
DT Journal
LA English
AB A highly sensitive, accurate, and reproducible HPLC method for the determination

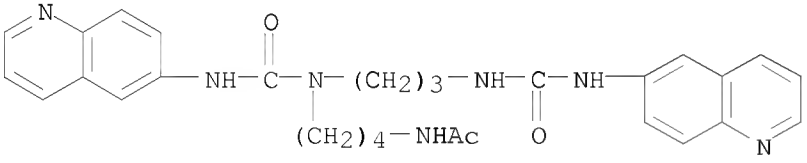
of all natural polyamines and their monoacetyl conjugates is described. The presented method is based on precolumn derivatization with N-hydroxysuccinimidyl 6-quinolinyl carbamate (HSQC) followed by C18-HPLC separation using a ternary gradient and fluorescence detection (λEx=248 nm, λEm = 398 nm). The derivs. of the four main polyamines (putrescine, cadaverine, spermidine, and spermine) and the internal standard were synthesized on a preparative scale and characterized, especially with respect to their molar absorptivities and fluorescence quantum yields. The limits of detection of the highly stable derivs. ranged from 30 to 130 fmol (injection volume 10 μl) for putrescine and N-acetylcadaverine, resp. (signal to noise ratio = 10), with excellent linearity within the range from 1 to 100 μM. High reproducibility for both retention times and peak areas, with coeffs. of variation ranging from 0.14 to 0.88% and from 1.83 to 3.80%, resp., were achieved. Provided that deproteinization of the samples was carried out immediately, recoveries of the analytes from homogenates of pancreatic cancer xeno-grafts were high and reproducible. The optimized method was applied to the determination of the polyamine content of cultured pancreatic cancer cells and of tissue from colorectal adenocarcinoma, proving precise and reproducible quantification in these complex biol. matrixes.

IT 191729-96-1P 191729-97-2P 191729-98-3P
191729-99-4P 191730-00-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(high-resolution reversed-phase HPLC anal. of polyamines and their monoacetyl conjugates by fluorescence detection after derivatization with N-hydroxysuccinimidyl 6-quinolinyl carbamate)

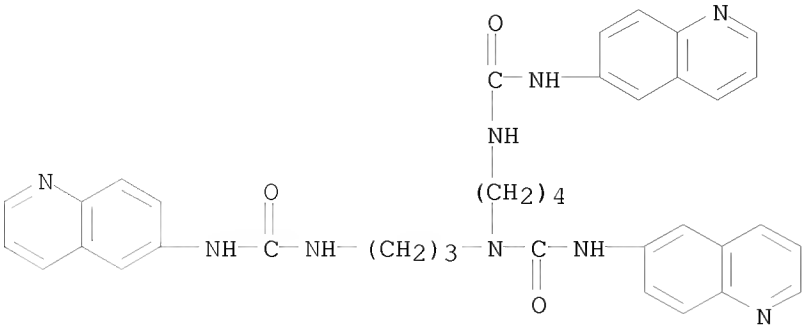
RN 191729-96-1 CAPLUS
CN Acetamide, N-[3-[[(6-quinolinylamino)carbonyl][4-[[(6-quinolinylamino)carbonyl]amino]butyl]amino]propyl]- (CA INDEX NAME)



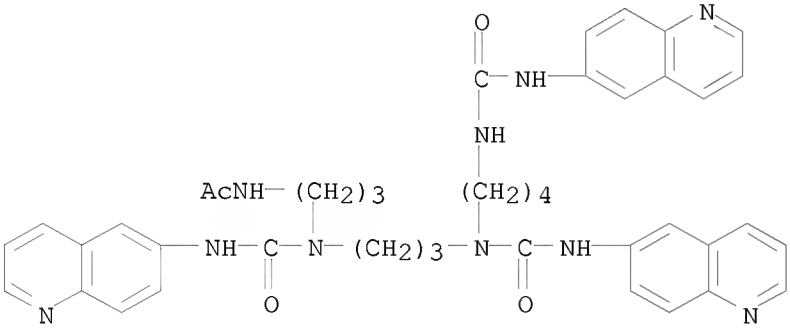
RN 191729-97-2 CAPLUS
CN Acetamide, N-[4-[[(6-quinolinylamino)carbonyl][3-[[(6-quinolinylamino)carbonyl]amino]propyl]amino]butyl]- (CA INDEX NAME)



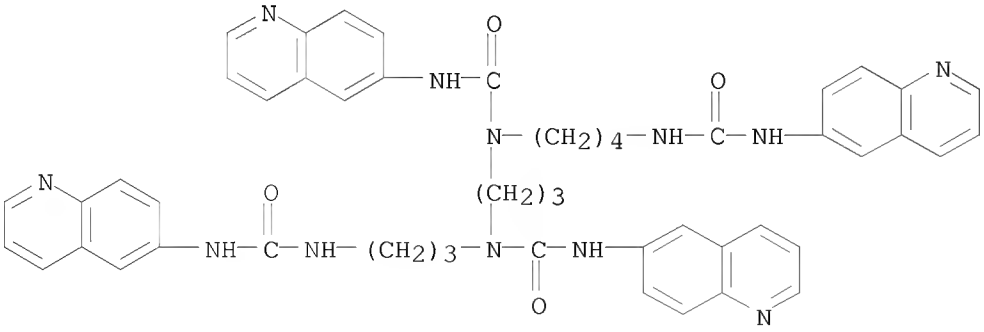
RN 191729-98-3 CAPLUS
CN Urea, N'-6-quinolinyl-N-[4-[[(6-quinolinylamino)carbonyl]amino]butyl]-N-[3-[[(6-quinolinylamino)carbonyl]amino]propyl]- (CA INDEX NAME)



RN 191729-99-4 CAPLUS
CN 2,7,11,15-Tetraazaheptadecanamide, 16-oxo-N-6-quinolinyl-7,11-bis[(6-quinolinylamino)carbonyl]- (CA INDEX NAME)



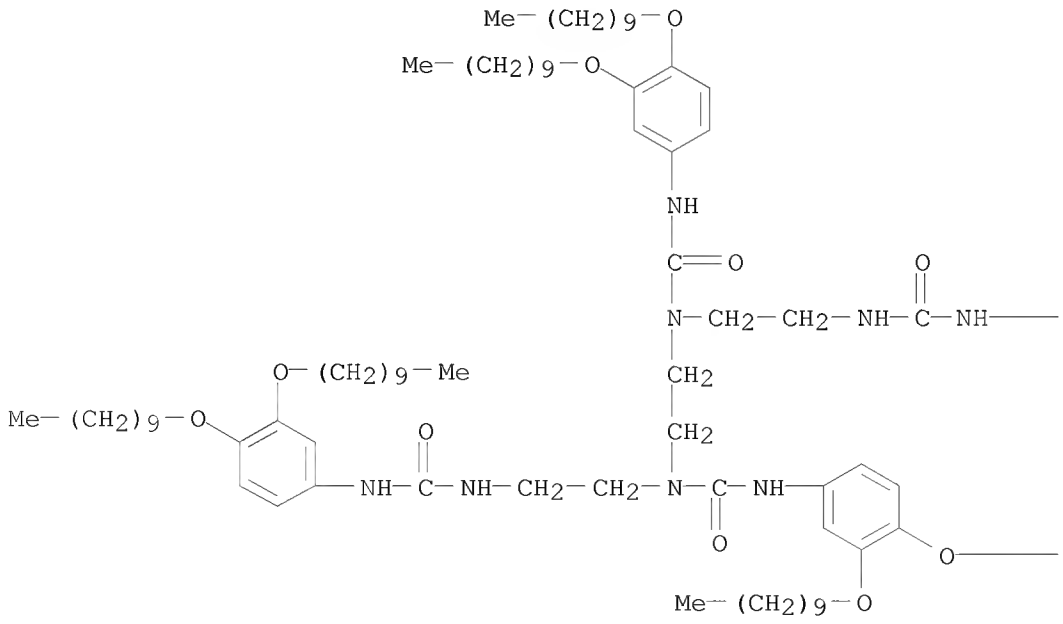
RN 191730-00-4 CAPLUS
CN 2,6,10,15-Tetraazahexadecanediamide, N1,N16-di-6-quinolinyl-6,10-bis[(6-quinolinylamino)carbonyl]- (CA INDEX NAME)

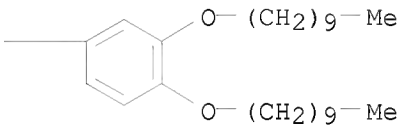


OSC.G 33 THERE ARE 33 CAPLUS RECORDS THAT CITE THIS RECORD (33 CITINGS)
RE.CNT 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1997:268152 CAPLUS
DN 127:11327
OREF 127:2213a,2216a
TI Liquid crystalline derivatives of oligoethylene-amines and -amino ethers with amide, ester, urea or urethane functions
AU Stebani, Uwe; Lattermann, Gunter; Wittenberg, Michael; Wendorff, Joachim Heinz
CS Makromolekulare Chemie I, Universitat Bayreuth, Bayreuth, D-95440, Germany
SO Journal of Materials Chemistry (1997), 7(4), 607-614
CODEN: JMACEP; ISSN: 0959-9428
PB Royal Society of Chemistry
DT Journal
LA English
AB The mesomorphism of diethylenetriamine and triethylenetetramine derivs., substituted with the 3,4-bis(decyloxy)benzoyl group ('two chain' substituent) via amide, ester, urea or urethane moieties, is described. Also, different examples of related linear and cyclic oligoethyleneamino ethers were studied and compared with the mesomorphism of the 1st group. Both lamellar smectic A and hexagonal columnar mesophases can be observed in linear compds., depending on the length of the linear unit. A cyclic derivative displays a cubic phase. The conclusion is emphasized that the mesomorphism of these classes of compds. is caused by microphase separation
IT 190275-30-0P
RL: PEP (Physical, engineering or chemical process); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)
(preparation and liquid crystal properties of)
RN 190275-30-0 CAPLUS
CN 2,5,8,11-Tetraazadodecanediamide, N1,N12-bis[3,4-bis(decyloxy)phenyl]-5,8-bis[[[3,4-bis(decyloxy)phenyl]amino]carbonyl]- (CA INDEX NAME)

PAGE 1-A





— (CH2)9—Me

OSC.G 18 THERE ARE 18 CAPLUS RECORDS THAT CITE THIS RECORD (18 CITINGS)
RE.CNT 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1993:131352 CAPLUS
DN 118:131352
OREF 118:22591a,22594a
TI Antifoaming agent for foam control of waters containing proteins and its use
IN Rasp, Christian
PA Bayer A.-G., Germany
SO Ger. Offen., 8 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 4104869	A1	19920820	DE 1991-4104869	19910217
			DE 1991-4104869	19910217

AB Foaming in wastewaters, e.g., from slaughterhouses, containing 50 ppm to 0.5 weight% proteins, is prevented using a modified polyether (I), where R is II. A suitable agent is I where R1 = R2 = R4 = H, R3 = Me, R5 = n-Bu, p = q = 0, x = 21, y = 16, R6 = 2,4-toluylene, and R7 = C2H4.
IT 146349-56-6
RL: PROC (Process)
(antifoaming agent, for slaughterhouse wastewaters)
RN 146349-56-6 CAPLUS
CN Oxirane, methyl-, polymer with oxirane, ester with [3-[[[2-[[[5-[[(carboxyamino)carbonyl]amino]-2-methylphenyl]amino]carbonyl][2-[[[3-(carboxyamino)-4-methylphenyl]amino]carbonyl]amino]ethyl]amino]ethyl]amino]carbonyl]amino]-

4-methylphenyl]carbamic acid (3:1), tributyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 177570-62-6
CMF C32 H38 N10 O10

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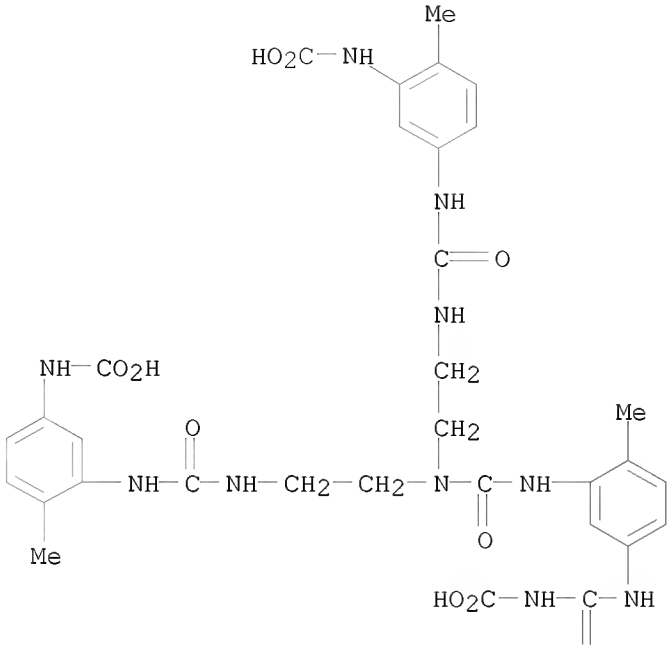
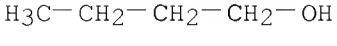


PAGE 2-A

CM 2

CRN 71-36-3
CMF C4 H10 O

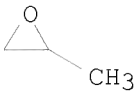


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



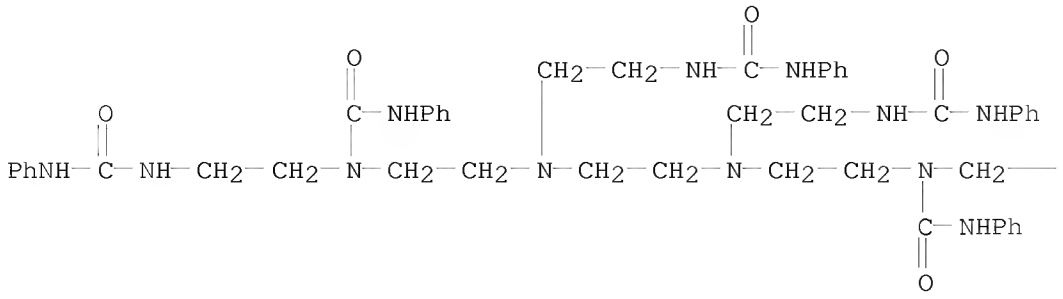
CM 5

CRN 75-21-8
CMF C2 H4 O

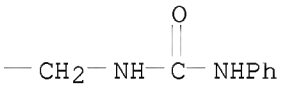
L4 ANSWER 10 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1993:101613 CAPLUS
DN 118:101613
OREF 118:17781a,17784a
TI Non-classical urea oligomers. Part XIV. Some new properties of copper(II) ion encircled by bis-branched oligomeric urea ligand: properties associated with catalysis for oxidative coupling of phenols
AU Araki, Takeo; Tanaka, N.; Hinokimori, T.; Hotta, K.; Tateishi, K.; Kubo, Y.; Yamaguchi, T.; Watanabe, K.; Fukuda, H.; Asa, H.
CS Dep. Polym. Sci. Eng., Kyoto Inst. Technol., Kyoto, 606, Japan
SO Journal of Molecular Catalysis (1992), 75(1), 21-40
CODEN: JMCADS; ISSN: 0304-5102
DT Journal
LA English
AB Bis-branched urea oligomers (B-urea) mainly composed of hexakis(N-acrylcarbamoyl)-[N3,N4-bis(ethylamino)]pentaethylenehexamine were obtained by the reaction of triethylenetetramine with 1,2-dibromoethane followed by treatment with PhNCO. Under neutral conditions the B-urea readily forms stable mononuclear Cu(II) complexes, e.g. I, in which a Cu(II) ion is almost fully surrounded by the B-urea ligand, as confirmed by magnetic susceptibility measurements. In the presence of oxygen, this Cu(II) complex (B-urea-Cu(II)) effectively catalyzes oxidative coupling of various substituted phenols, e.g. 2,6-di-tert-butyl-, 2,6-dimethyl-, and 2,6-di-tert-butyl-4-methylphenols. At the same time the Cu(II) ion is reduced to form the corresponding yellow B-urea-Cu(I) complex quant. The Cu(I) state is highly stable for storage in the solid state but can readily be reacted with oxygen in a reversible manner in solution
IT 144964-19-2 144976-66-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(complexation of, with copper(II))
RN 144964-19-2 CAPLUS
CN 2,5,8,11,14,17-Hexaazaoctadecanediamide, N1,N18-diphenyl-5,14-bis[(phenylamino)carbonyl]-8,11-bis[2-

[[(phenylamino)carbonyl]amino]ethyl]- (CA INDEX NAME)

PAGE 1-A

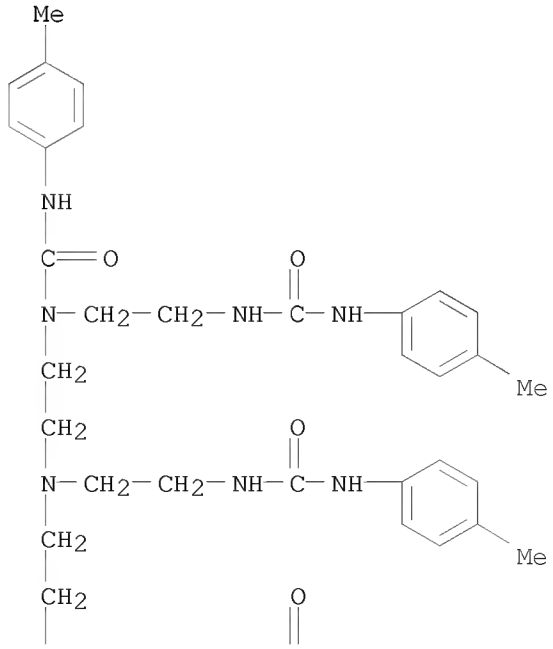


PAGE 1-B

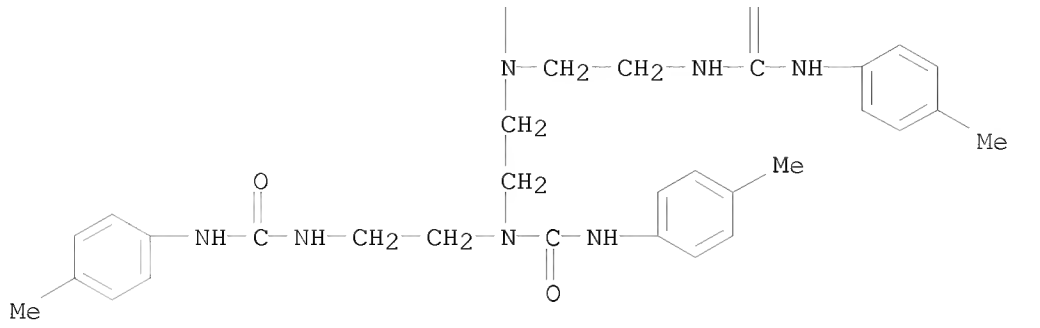


RN 144976-66-9 CAPLUS
CN 2,5,8,11,14,17-Hexaazaoctadecanediamide,
N1,N18-bis(4-methylphenyl)-5,14-bis[[(4-methylphenyl)amino]carbonyl]-8,11-
bis[2-[[[(4-methylphenyl)amino]carbonyl]amino]ethyl]- (CA INDEX NAME)

PAGE 1-A

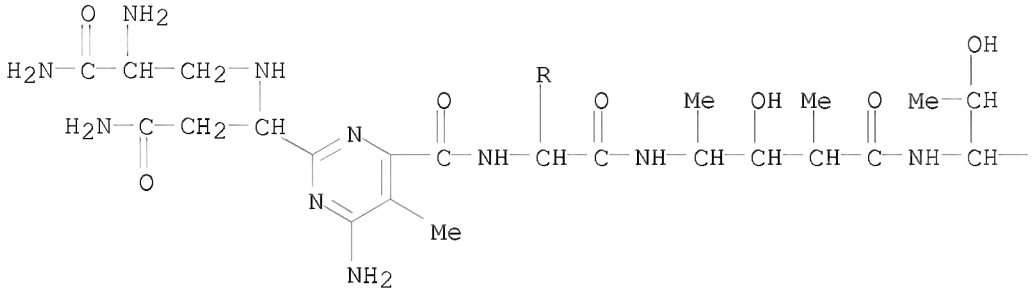


PAGE 2-A

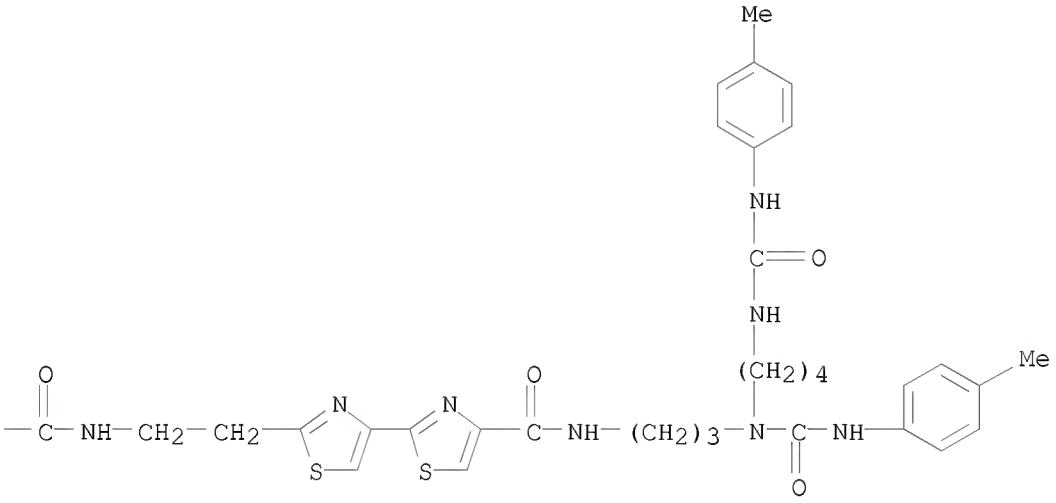


L4 ANSWER 11 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1993:39373 CAPLUS
DN 118:39373
OREF 118:7195a,7198a
TI Chemical modification of the antitumor antibiotic bleomycetin by C-end fragment
AU Andronnikova, G. P.; Lomakina, N. N.; Anisimova, T. M.; Usol'seva, S. V.; Zenkova, V. A.; Anoshina, G. M.; Bychkova, O. P.; Gold'berg, L. E.; Stepanova, E. S.
CS Urals Polytech. Inst., Ekaterinburg, Russia
SO Antibiotiki i Khimioterapiya (1992), 37(8), 24-7
CODEN: ANKHEW; ISSN: 0235-2990
DT Journal
LA Russian
AB Bleomycetin I [R = NH(CH2)3NH(CH2)4NH2], an antitumor antibiotic, was modified at the 3-[(4-aminobutyl)amino]propylamine (spermidine) fragment by acylation, carbamoylation, and reductive alkylation to give new semisynthetic derivs. Modifications involved the primary and secondary amino groups and gave N,N'-diacyl, N,N'-dicarbamoyl, and N,N'-dialkyl bleomycetins with lowered antibiotic toxicities.
IT 144764-23-8P 144764-25-0P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and cytotoxicity of)
RN 144764-23-8 CAPLUS
CN Bleomycinamide, N1-[3-[[[(4-methylphenyl)amino]carbonyl][4-[[[(4-methylphenyl)amino]carbonyl]amino]butyl]amino]propyl]- (9CI) (CA INDEX NAME)

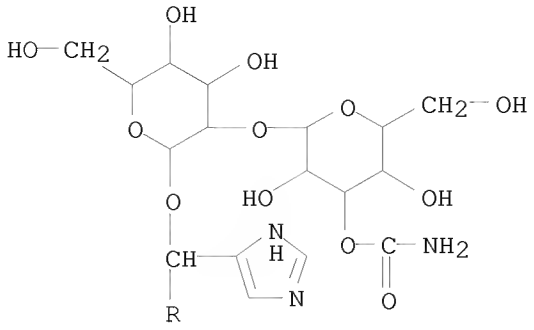
PAGE 1-A



PAGE 1-B

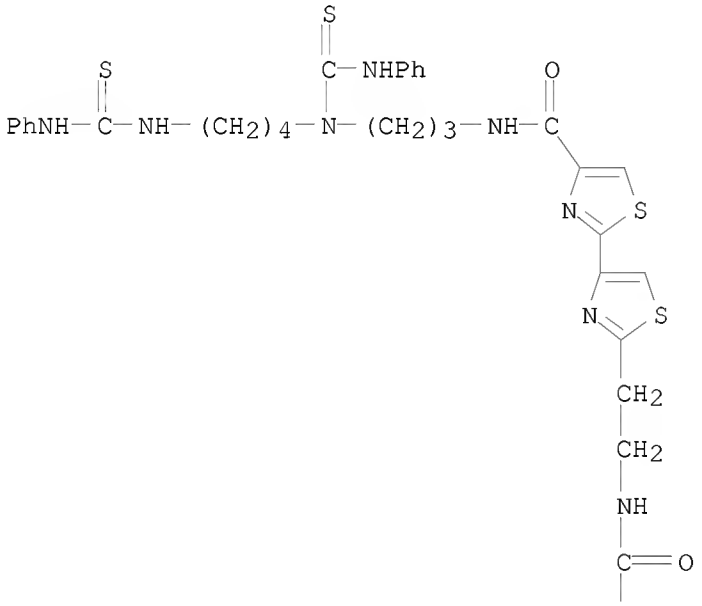


PAGE 2-A

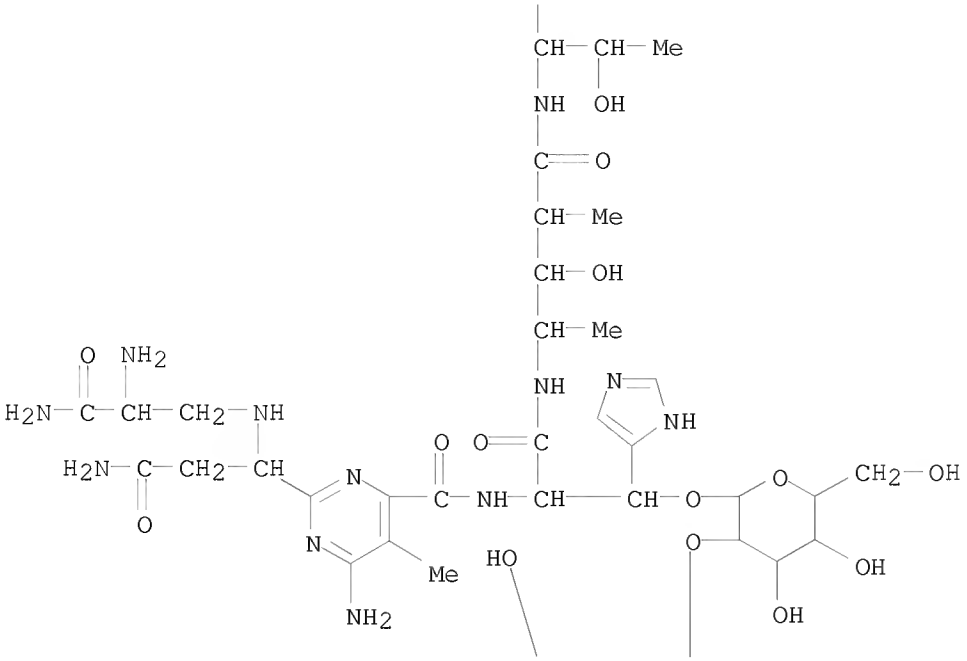


RN 144764-25-0 CAPLUS
CN Bleomycinamide, N1-[3-[[(phenylamino)thioxomethyl][4-[[(phenylamino)thioxomethyl]amino]butyl]amino]propyl]- (9CI) (CA INDEX NAME)

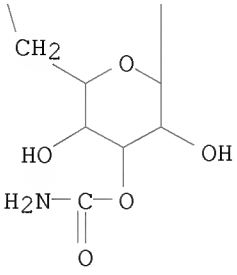
PAGE 1-A



PAGE 2-A

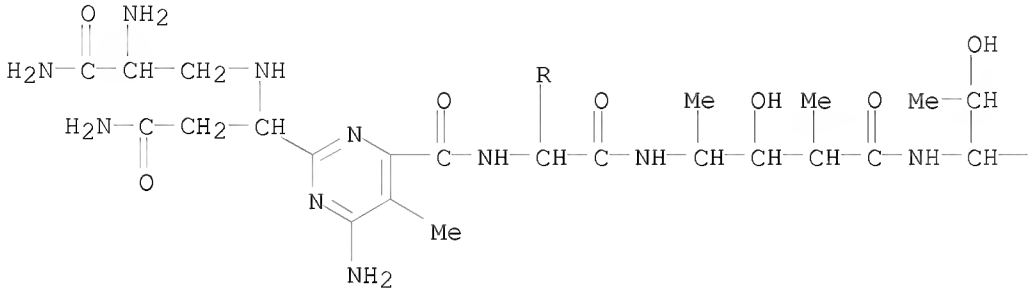


PAGE 3-A



IT 144764-23-8DP, copper complex 144764-25-0DP, copper complex
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and decomplexation of)
RN 144764-23-8 CAPLUS
CN Bleomycinamide, N1-[3-[[[(4-methylphenyl)amino]carbonyl][4-[[[(4-methylphenyl)amino]carbonyl]amino]butyl]amino]propyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



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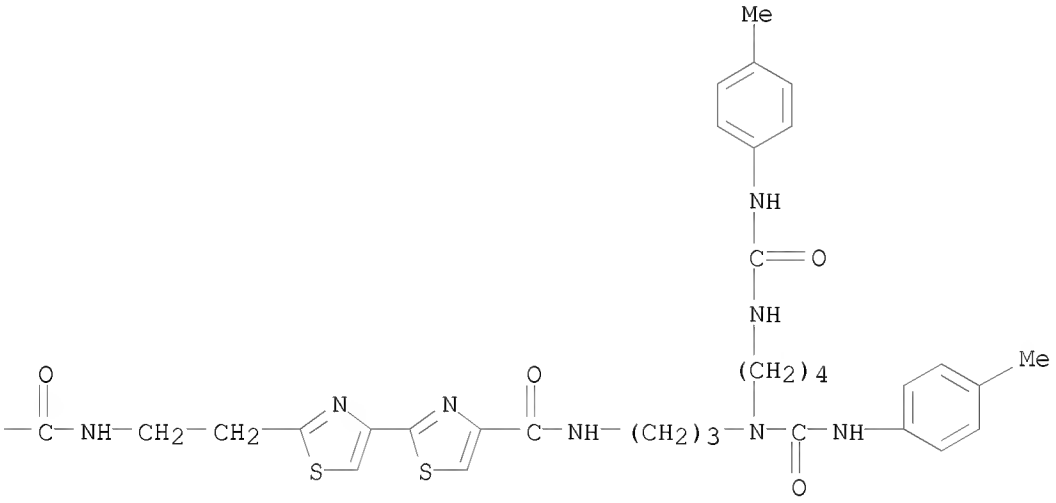
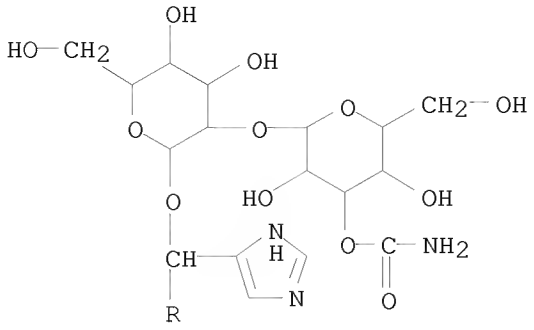
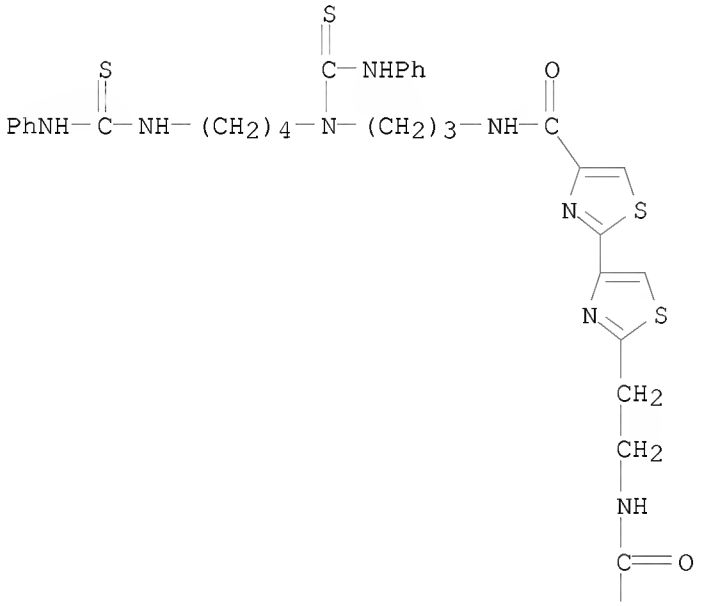


PAGE 2-A

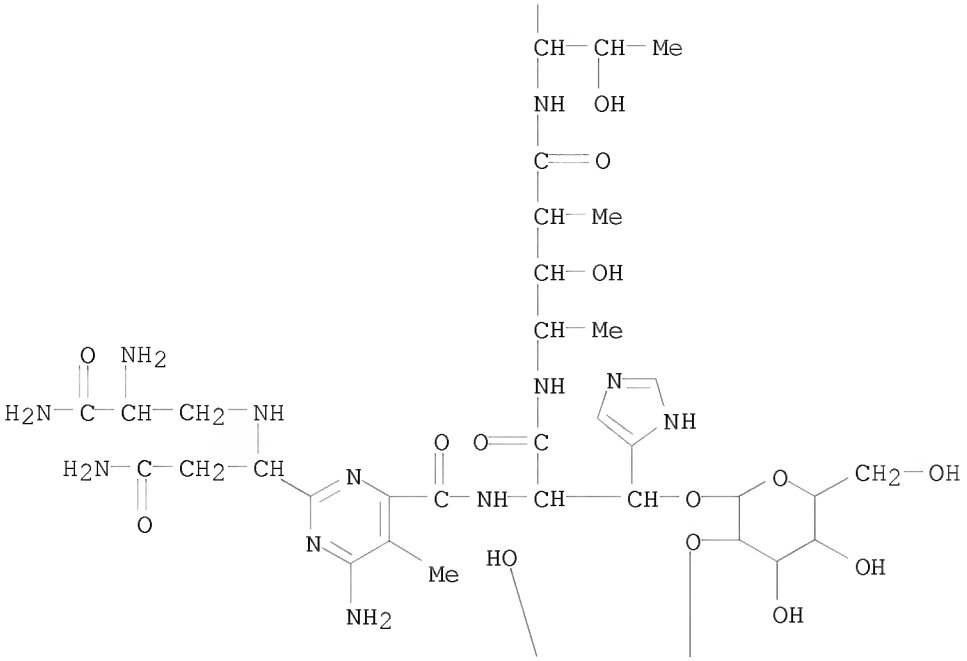


RN 144764-25-0 CAPLUS
CN Bleomycinamide, N1-[3-[[(phenylamino)thioxomethyl][4-[[(phenylamino)thioxomethyl]amino]butyl]amino]propyl]- (9CI) (CA INDEX NAME)

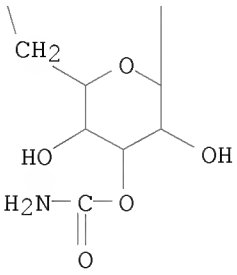
PAGE 1-A



PAGE 2-A



PAGE 3-A



L4 ANSWER 12 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1990:209795 CAPLUS
DN 112:209795
OREF 112:35243a,35246a
TI Preparation and copper(II)-complexing property of hexakis(N-phenylcarbamoyl)-(3N-ethylamino)pentaethylenehexamine. A new type of chelating compound
AU Araki, Takeo; Kubo, Yasuo; Nomura, Yuzo
CS Dep. Polym. Sci. Eng., Kyoto Inst. Technol., Matsugasaki, 606, Japan
SO Chemistry Express (1990), 5(1), 17-20
CODEN: CHEXEU; ISSN: 0911-9566
DT Journal
LA English
AB Hexakis(N-phenylcarbamoyl)(3N-ethylamino)pentaethylenehexamine was prepared from Epomin-SP003 by the reaction with PhNCO and purified by column

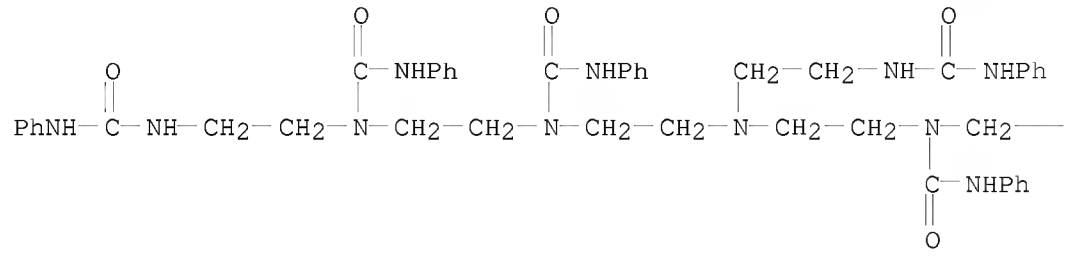
chromatog. This singly branched chain compound formed a stable Cu(II) complex in contrast to the case of the linear chain analog. The main component of the starting oligoethylenimine was thus confirmed.

IT 126912-10-5DP, copper complex
RL: PRP (Properties); PREP (Preparation)
(formation and electronic spectrum of)

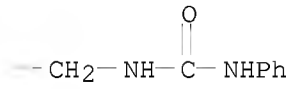
RN 126912-10-5 CAPLUS

CN 2,5,8,11,14,17-Hexaazaoctadecane-5,8,14-tricarboxamide, 1,18-dioxo-N5,N8,N14-triphenyl-1,18-bis(phenylamino)-11-[2-[[(phenylamino)carbonyl]amino]ethyl]- (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

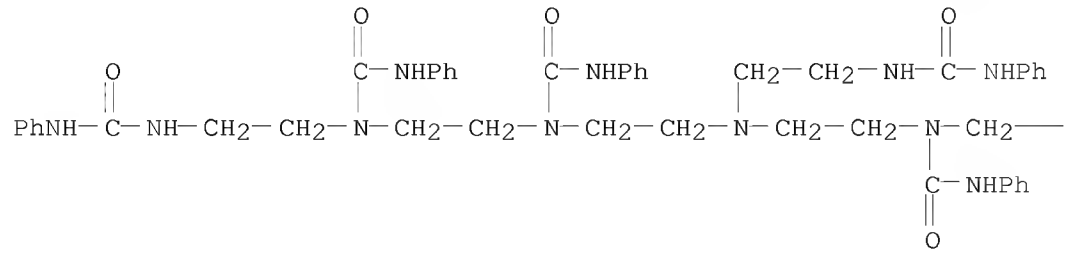


IT 126912-10-5P, Hexakis(N-phenylcarbamoyl))3N-ethylamino)pentaethylenehexamine
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

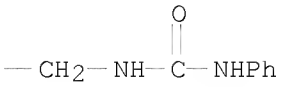
RN 126912-10-5 CAPLUS

CN 2,5,8,11,14,17-Hexaazaoctadecane-5,8,14-tricarboxamide, 1,18-dioxo-N5,N8,N14-triphenyl-1,18-bis(phenylamino)-11-[2-[[(phenylamino)carbonyl]amino]ethyl]- (CA INDEX NAME)

PAGE 1-A

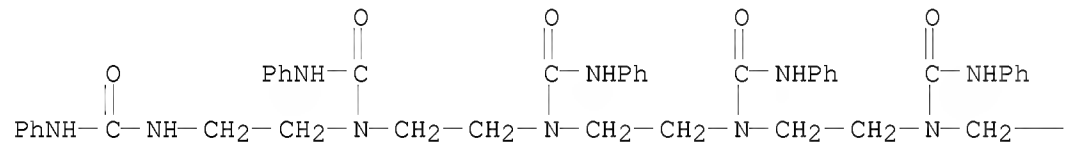


PAGE 1-B

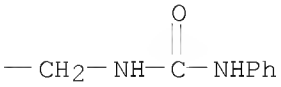


L4 ANSWER 13 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1990:177900 CAPLUS
DN 112:177900
OREF 112:30073a,30076a
TI Paramagnetic line-broadening of nitrogen-hydrogen signals in hexakis(N-phenylcarbamoyl)pentaethylenehexamine in the presence of copper(II) ions
AU Araki, Takeo; Kubo, Yasuo; Tsuchie, Shoji
CS Dep. Polym. Sci. Eng., Kyoto Inst. Technol., Kyoto, 606, Japan
SO Chemistry Express (1989), 4(11), 705-8
CODEN: CHEXEU; ISSN: 0911-9566
DT Journal
LA English
AB Paramagnetic 1H-NMR line-broadening of the NH signals in hexakis(N-phenylcarbamoyl)pentaethylenehexamine in the presence of Cu(II) ions indicates that the Cu ions interact more readily with the outer CO-NH groups than with the inner CO-NH groups.
IT 126093-17-2
RL: PRP (Properties)
(NMR spectrum of, effect of copper ions on)
RN 126093-17-2 CAPLUS
CN 2,5,8,11,14,17-Hexaazaoctadecane-5,8,11,14-tetracarboxamide, 1,18-dioxo-N5,N8,N11,N14-tetraphenyl-1,18-bis(phenylamino)- (CA INDEX NAME)

PAGE 1-A

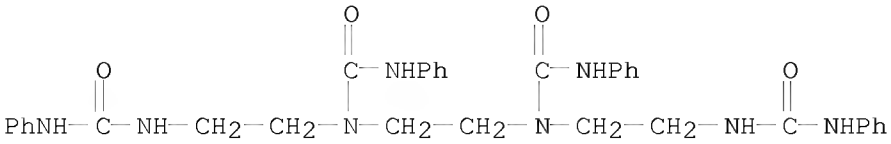


PAGE 1-B

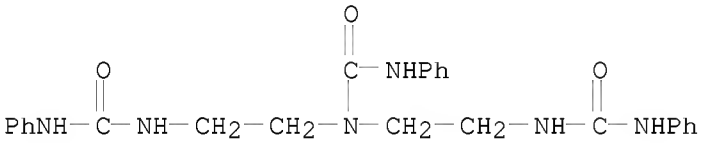


IT 122595-05-5 126552-70-3 126552-71-4
RL: PRP (Properties)
(attempted complexation of, with copper ions)

RN 122595-05-5 CAPLUS
CN 2,5,8,11-Tetraazadodecanediamide, N1,N12-diphenyl-5,8-bis[(phenylamino)carbonyl]- (CA INDEX NAME)

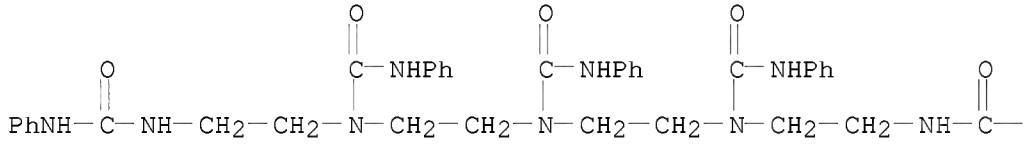


RN 126552-70-3 CAPLUS
CN Urea, N'-phenyl-N,N-bis[2-[[(phenylamino)carbonyl]amino]ethyl]- (CA INDEX NAME)



RN 126552-71-4 CAPLUS
CN 2,5,8,11,14-Pentaazapentadecanediamide, N1,N15-diphenyl-5,8,11-tris[(phenylamino)carbonyl]- (CA INDEX NAME)

PAGE 1-A



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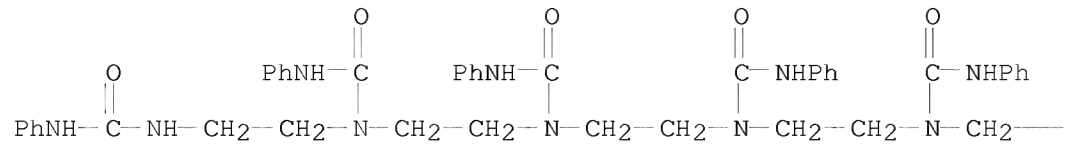
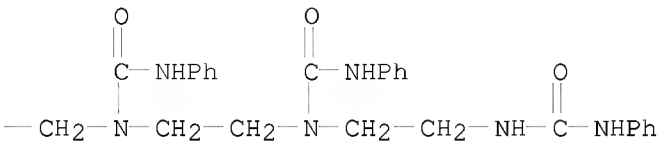
— NHPh

IT 115269-92-6
RL: PRP (Properties)
(complexation of, with copper ions)
RN 115269-92-6 CAPLUS
CN 2,5,8,11,14,17,20,23-Octaazatetracosane-5,8,11,14,17,20-hexacarboxamide, 1,24-dioxo-N5,N8,N11,N14,N17,N20-hexaphenyl-1,24-bis(phenylamino)- (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



L4 ANSWER 14 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1990:157650 CAPLUS
DN 112:157650
OREF 112:26643a,26646a
TI Nonclassical urea oligomers. XI. Presence of intramolecular hydrogen bonds in hexakis(N-phenylcarbamoyl)pentaethylenehexamine
AU Araki, Takeo; Kubo, Yasuo; Yasuda, Yohko
CS Dep. Polym. Sci. Eng., Kyoto Inst. Technol., Kyoto, 606, Japan
SO Chemistry Express (1989), 4(9), 605-8
CODEN: CHEXEU; ISSN: 0911-9566
DT Journal
LA English
AB The title compound (I) was treated with CF3CH2OH and the concentration-dependent downfield shifts of the NH signals in the NMR spectrum were observed The inner NH groups are bonded by intramol. H bonds and the outer NH groups contribute to intermol. H bonding; a helical conformation for I is suggested.
IT 126093-17-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, NMR, and mol. structure of, hydrogen bonding in relation to)
RN 126093-17-2 CAPLUS
CN 2,5,8,11,14,17-Hexaazaoctadecane-5,8,11,14-tetracarboxamide, 1,18-dioxo-N5,N8,N11,N14-tetraphenyl-1,18-bis(phenylamino)- (CA INDEX NAME)

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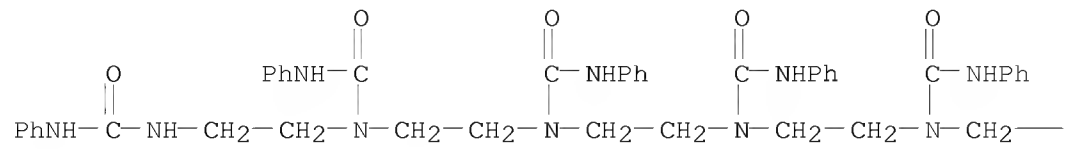
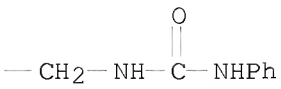
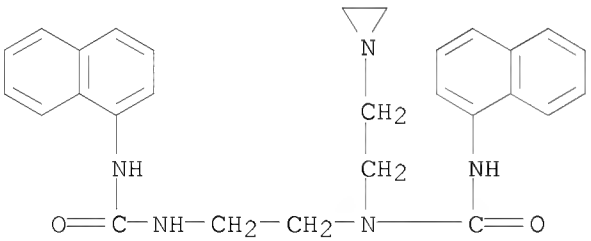




OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L4 ANSWER 15 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1989:231353 CAPLUS
DN 110:231353
OREF 110:38343a,38346a
TI Oligomers of aziridines and N-β-aziridinoethylamides
AU Kostyanovskii, R. G.; Leshchinskaya, V. P.; Alekperov, R. K.; Kadorkina, G. K.; Shustova, L. L.; El'natanov, Yu. I.; Gromova, G. L.; Aliev, A. E.; Chervin, I. I.
CS Int. Khim. Fiz., Moscow, USSR
SO Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (1988), (11), 2566-75
CODEN: IASKA6; ISSN: 0002-3353
DT Journal
LA Russian
OS CASREACT 110:231353
AB Aziridine dimers (e.g., N-acyl derivs. I) were prepared by treating aziridine with esters of strong organic acids, e.g., CF3CO2Et, EtO2CCO2Et, HCO2Et, MeCOCH2CO2Et. New N-acyl and carbamoyl derivs. of aziridine dimer and trimer were prepared Linear and branched isomers of aziridine tetramer, and a diastereomeric mixture of 2-methylaziridine dimer were isolated. An efficient regiospecific synthesis of 2,2-dimethylaziridine dimer and trimer was developed.
IT 120626-70-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 120626-70-2 CAPLUS
CN Urea, N-[2-(1-aziridinyl)ethyl]-N'-1-naphthalenyl-N-[2-[[(1-naphthalenylamino)carbonyl]amino]ethyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 16 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1988:454269 CAPLUS
DN 109:54269
OREF 109:9143a,9146a
TI Site-selective derivatization of oligoethylenimines using five-membered-ring protection method
AU Araki, Takeo; Kubo, Yasuo; Gohbara, Shinji; Fujimoto, Tatsuya; Notsu,

Akio; Nakahara, Masaru; Isono, Toshihisa; Masuda, Noriko; Fukumoto, Kazumi
CS Fac. Sci., Shimane Univ., Matsue, 690, Japan
SO Macromolecules (1988), 21(7), 1995-2001
CODEN: MAMOBX; ISSN: 0024-9297
DT Journal
LA English
AB Application of modified Ganem's method was effective for derivatization of oligoethyleneimines (diethylenetriamine, triethylenetetramine, and pentaethylenehexamine) to site-selectively substituted products. The method involves protection of amino groups with aldehydes by formation of five-membered rings, resulting in the remaining unprotected NH groups ready for substitution. Thus, treating H2N(CH2)2NH(CH2)2NH2 with HCHO gave (imidazolidylethyl)amine I. The protective five-membered ring was readily deprotected to recover the amino groups after the necessary substitution reactions were carried out. This protecting method was applied to site-selective thiourea derivatizations and synthesis of completely linear heptaethyleneoctamine.
IT 115269-94-8P 115269-95-9P 115269-96-0P
115269-97-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and gel permeation chromatog. of)
RN 115269-94-8 CAPLUS
CN 2,5,8,11,14,17-Hexaazaoctadecane-5,8,11,14-tetracarboxamide, N5,N8,N11,N14-tetrakis(4-methylphenyl)-1,18-bis[(4-methylphenyl)amino]-1,18-dioxo- (CA INDEX NAME)

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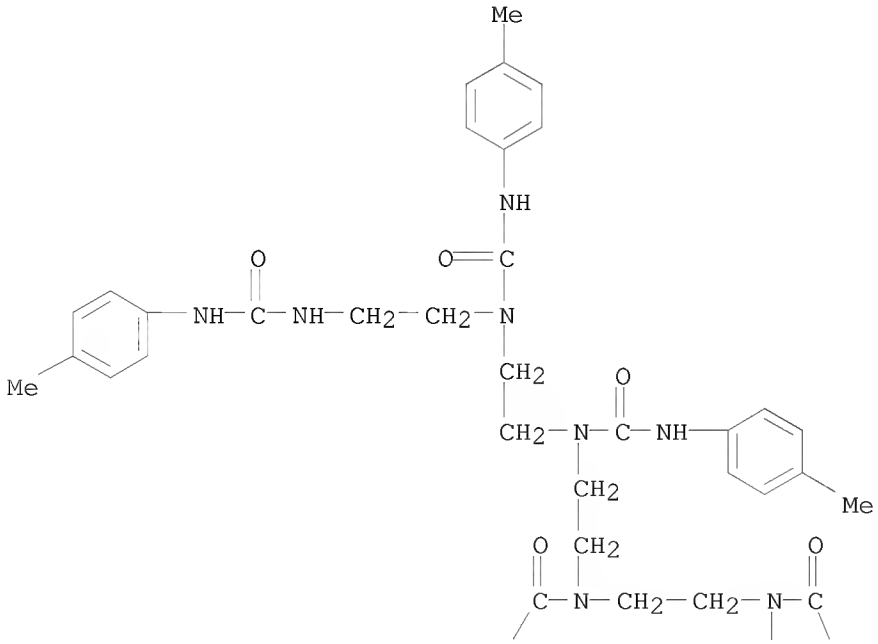

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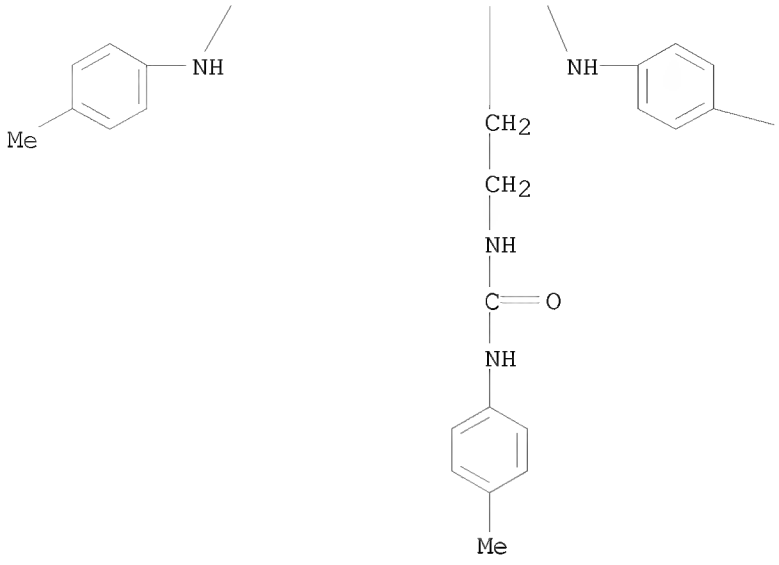

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Me

RN 115269-95-9 CAPLUS
CN 2,5,8,11,14-Pentaazapentadecanediamide,
N1,N15-bis(4-methylphenyl)-5,8,11-tris[[(4-methylphenyl)amino]carbonyl]-
(CA INDEX NAME)

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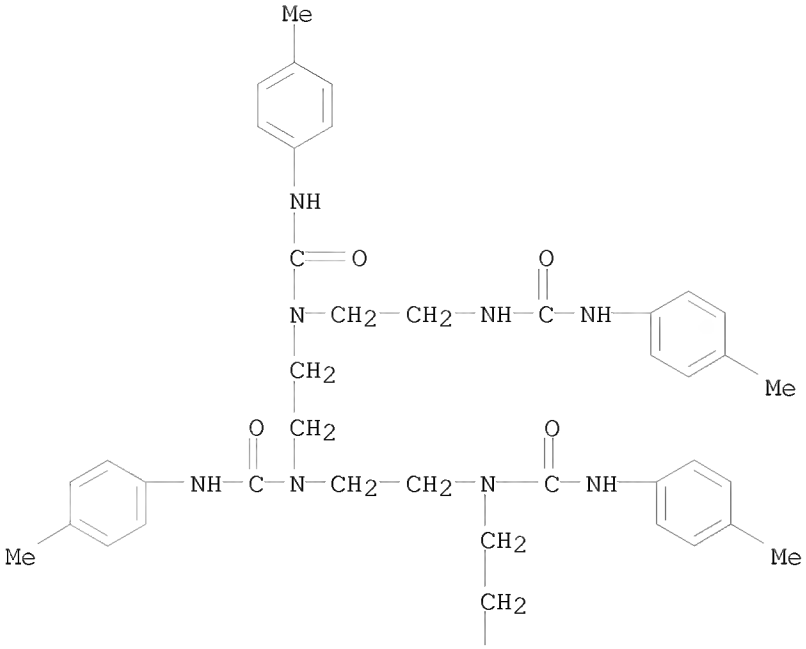

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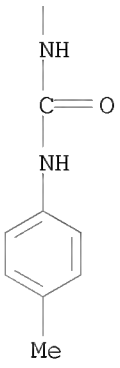
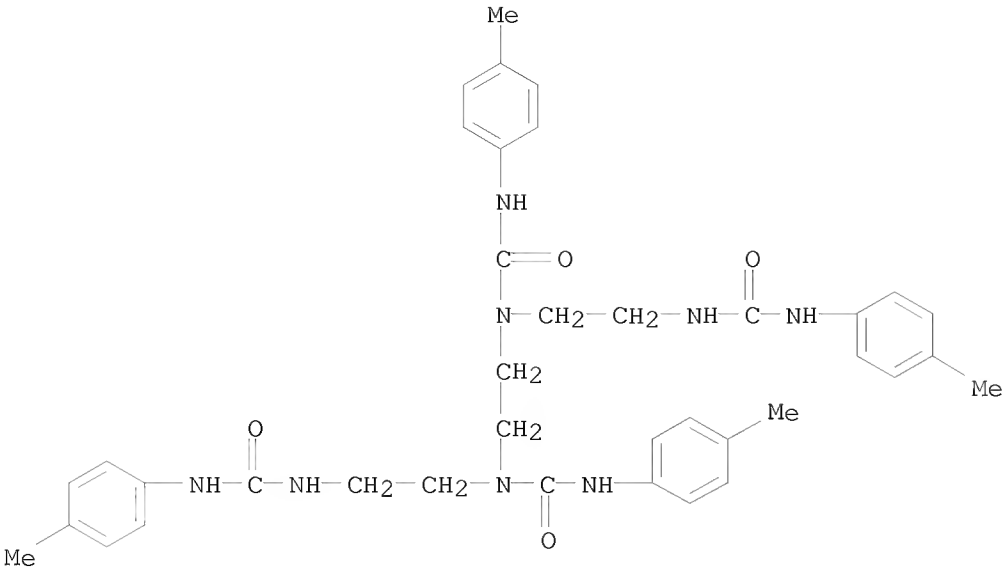
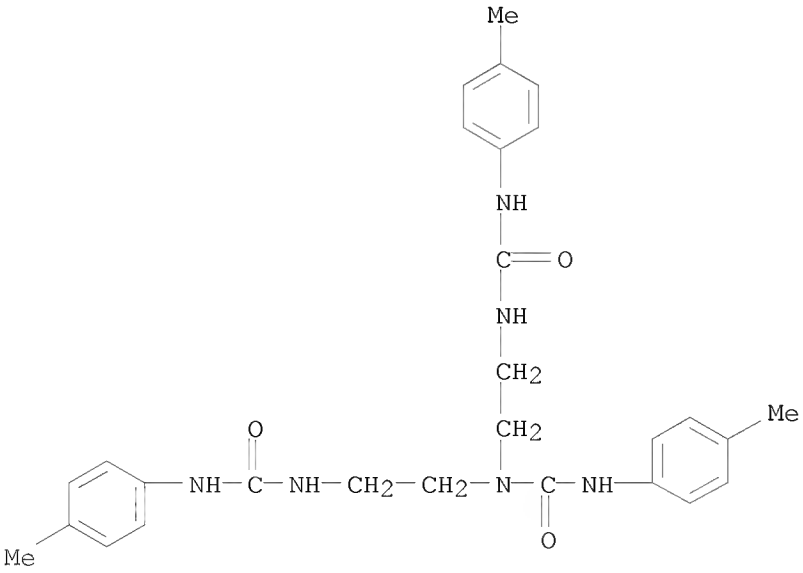


RN 115269-96-0 CAPLUS
CN 2,5,8,11-Tetraazadodecanediamide, N1,N12-bis(4-methylphenyl)-5,8-bis[[(4-methylphenyl)amino]carbonyl]- (CA INDEX NAME)

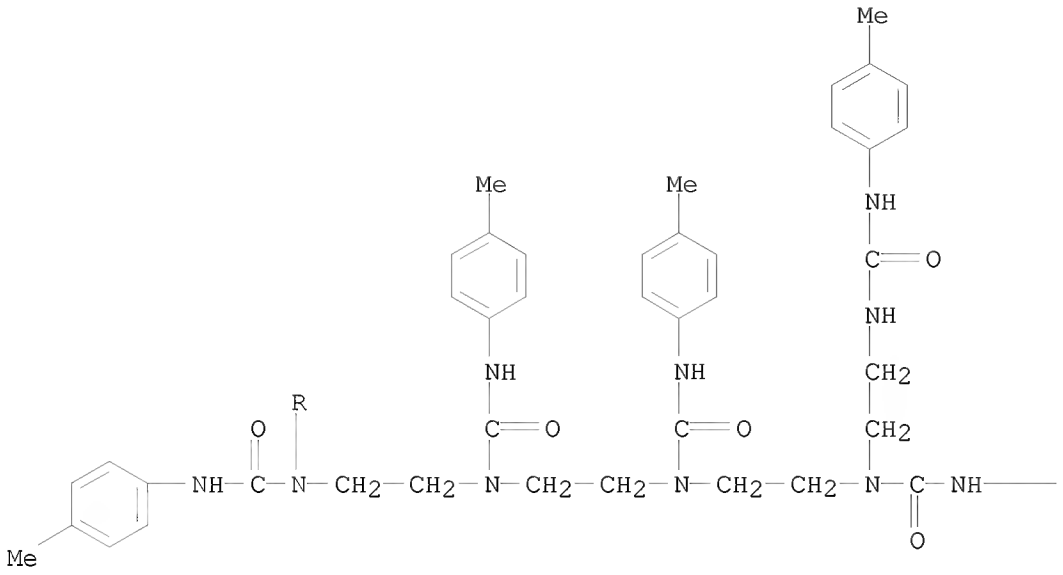


RN 115269-97-1 CAPLUS
CN Urea, N'-(4-methylphenyl)-N,N-bis[2-[[[(4-methylphenyl)amino]carbonyl]amino]ethyl]- (CA INDEX NAME)

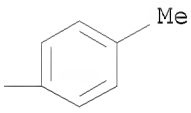


IT 115269-91-5P 115269-92-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 115269-91-5 CAPLUS
CN 2,5,8,11,14,17,20,23-Octaazatetracosane-5,8,11,14,17,20-hexacarboxamide, N5,N8,N11,N14,N17,N20-hexakis(4-methylphenyl)-1,24-bis[(4-methylphenyl)amino]-1,24-dioxo- (CA INDEX NAME)

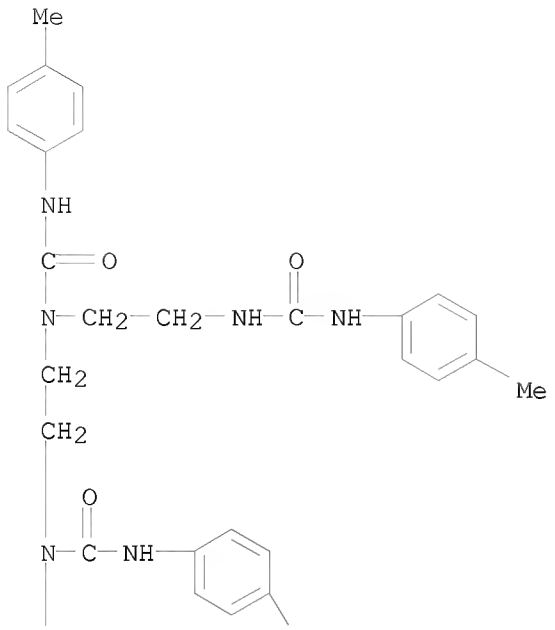
PAGE 1-A



PAGE 1-B



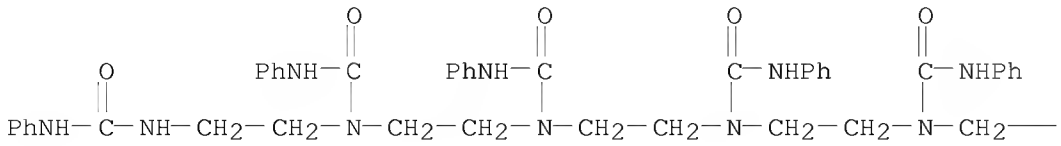
PAGE 2-A



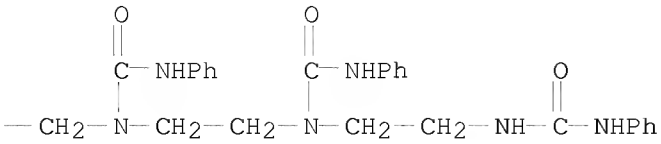
PAGE 3-A

RN 115269-92-6 CAPLUS
CN 2,5,8,11,14,17,20,23-Octaazatetracosane-5,8,11,14,17,20-hexacarboxamide, 1,24-dioxo-N5,N8,N11,N14,N17,N20-hexaphenyl-1,24-bis(phenylamino)- (CA INDEX NAME)

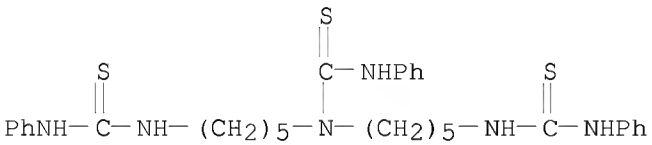
PAGE 1-A



PAGE 1-B



L4 ANSWER 17 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1987:455796 CAPLUS
DN 107:55796
OREF 107:9215a,9218a
TI Application of carbon-13 NMR spectroscopy to study the biosynthesis of the quinolizidine alkaloids lupinine and sparteine
AU Rana, Jatinder; Robins, David J.
CS Dep. Chem., Univ. Glasgow, Glasgow, G12 8QQ, UK
SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1986), (6), 1133-7
CODEN: JCPRB4; ISSN: 0300-922X
DT Journal
LA English
AB The labeling patterns in (-)-sparteine and (-)-lupinine derived biosynthetically in Lupinus luteus from [1-amino-15N,1-13C]cadaverine dihydrochloride (I) were established by 13C NMR spectroscopy. Three units of I are incorporated to about the same extent into sparteine, and 2 13C-15N doublets are observed in the 13C{1H} NMR spectrum of sparteine, demonstrating that 2 of these cadaverine units are converted into the outer rings of sparteine in a specific fashion. Two cadaverine units are incorporated into lupinine and 1 13C-15N doublet is observed These results, and 14C-labeling expts. with 1,7,13-triazatridecane, indicate that a later C5-N-C5 intermediate with C2v symmetry is not involved in lupinine or sparteine biosynthesis.
IT 109314-18-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 109314-18-3 CAPLUS
CN Thiourea, N'-phenyl-N,N-bis[5-[[(phenylamino)thioxomethyl]amino]pentyl]- (CA INDEX NAME)



L4 ANSWER 18 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1986:505837 CAPLUS
DN 105:105837
OREF 105:17001a,17004a
TI Recording media
IN Haruta, Masahiro; Matsuda, Hiroshi; Munakata, Hirohide; Nishimura, Yukio
PA Canon K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	JP 60192973	A	19851001	JP 1984-47186		19840314
	US 4818665	A	19890404	US 1987-27050		19870323
				JP 1984-47183	A	19840314
				JP 1984-47184	A	19840314
				JP 1984-47185	A	19840314
				JP 1984-47186	A	19840314
				JP 1984-47187	A	19840314
				JP 1984-47188	A	19840314
				US 1985-710686	A1	19850312
	US 5006446	A	19910409	US 1988-221638		19880720
				JP 1984-47183	A	19840314
				JP 1984-47184	A	19840314
				JP 1984-47185	A	19840314
				JP 1984-47186	A	19840314
				JP 1984-47187	A	19840314
				JP 1984-47188	A	19840314
				US 1985-710686	B1	19850312
				US 1987-27050	A3	19870323

PATENT FAMILY INFORMATION:

FAN 1986:234362

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	JP 60192972	A	19851001	JP 1984-47185		19840314
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				JP 1984-47187	A	19840314
				JP 1984-47188	A	19840314
				US 1985-710686	A1	19850312
	US 5006446	A	19910409	US 1988-221638		19880720
				JP 1984-47183	A	19840314
				JP 1984-47184	A	19840314
				JP 1984-47185	A	19840314
				JP 1984-47186	A	19840314
				JP 1984-47187	A	19840314
				JP 1984-47188	A	19840314
				US 1985-710686	B1	19850312
				US 1987-27050	A3	19870323

FAN 1986:488730

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	JP 60192974	A	19851001	JP 1984-47188		19840314
	US 4818665	A	19890404	US 1987-27050		19870323
				JP 1984-47183	A	19840314
				JP 1984-47184	A	19840314
				JP 1984-47185	A	19840314
				JP 1984-47186	A	19840314
				JP 1984-47187	A	19840314
				JP 1984-47188	A	19840314

				US 1985-710686	A1	19850312
	US 5006446	A	19910409	US 1988-221638		19880720
				JP 1984-47183	A	19840314
				JP 1984-47184	A	19840314
				JP 1984-47185	A	19840314
				JP 1984-47186	A	19840314
				JP 1984-47187	A	19840314
				JP 1984-47188	A	19840314
				US 1985-710686	B1	19850312
				US 1987-27050	A3	19870323

FAN 1986:488731

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	JP 60192685	A	19851001	JP 1984-47184		19840314
	US 4818665	A	19890404	US 1987-27050		19870323
				JP 1984-47183	A	19840314
				JP 1984-47184	A	19840314
				JP 1984-47185	A	19840314
				JP 1984-47186	A	19840314
				JP 1984-47187	A	19840314
				JP 1984-47188	A	19840314
				US 1985-710686	A1	19850312
	US 5006446	A	19910409	US 1988-221638		19880720
				JP 1984-47183	A	19840314
				JP 1984-47184	A	19840314
				JP 1984-47185	A	19840314
				JP 1984-47186	A	19840314
				JP 1984-47187	A	19840314
				JP 1984-47188	A	19840314
				US 1985-710686	B1	19850312
				US 1987-27050	A3	19870323

FAN 1986:488732

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	JP 60192684	A	19851001	JP 1984-47183		19840314
	JP 04027960	B	19920513			
	US 4818665	A	19890404	US 1987-27050		19870323
				JP 1984-47183	A	19840314
				JP 1984-47184	A	19840314
				JP 1984-47185	A	19840314
				JP 1984-47186	A	19840314
				JP 1984-47187	A	19840314
				JP 1984-47188	A	19840314
				US 1985-710686	A1	19850312
	US 5006446	A	19910409	US 1988-221638		19880720
				JP 1984-47183	A	19840314
				JP 1984-47184	A	19840314
				JP 1984-47185	A	19840314
				JP 1984-47186	A	19840314
				JP 1984-47187	A	19840314
				JP 1984-47188	A	19840314
				US 1985-710686	B1	19850312
				US 1987-27050	A3	19870323

FAN 1986:505898

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 60192977	A	19851001	JP 1984-47187	19840314
	US 4818665	A	19890404	US 1987-27050	19870323

				JP 1984-47183	A	19840314
				JP 1984-47184	A	19840314
				JP 1984-47185	A	19840314
				JP 1984-47186	A	19840314
				JP 1984-47187	A	19840314
				JP 1984-47188	A	19840314
				US 1985-710686	A1	19850312
US 5006446	A	19910409		US 1988-221638		19880720
				JP 1984-47183	A	19840314
				JP 1984-47184	A	19840314
				JP 1984-47185	A	19840314
				JP 1984-47186	A	19840314
				JP 1984-47187	A	19840314
				JP 1984-47188	A	19840314
				US 1985-710686	B1	19850312
				US 1987-27050	A3	19870323

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

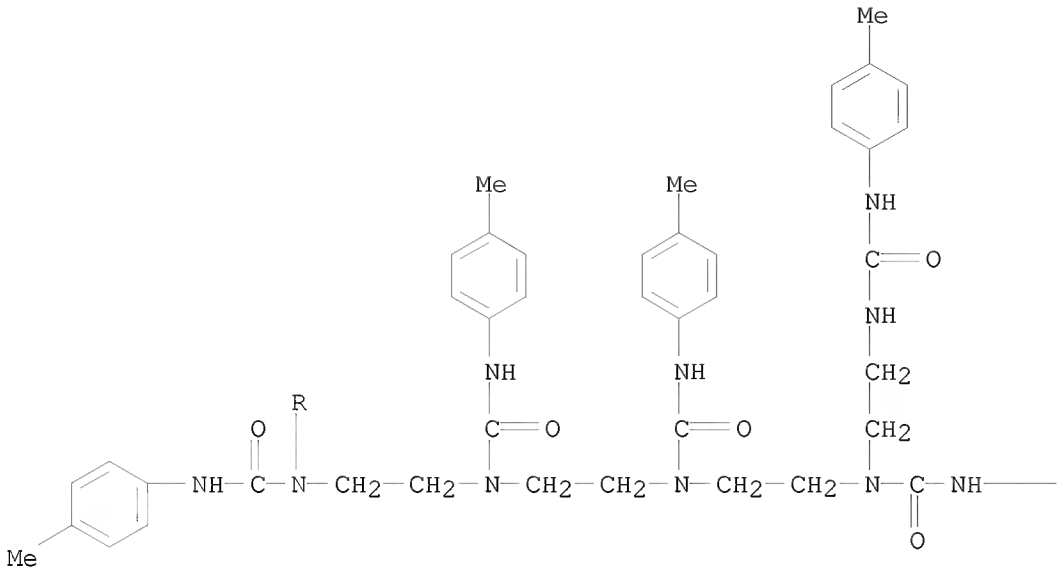
AB Recording media have a support and monomol. layers of a metal chelate and a free ligand stacked together singly or multiply or stacked monomol. layers of a mixture of the metal chelate and the free ligand. The media have high sensitivity to applied energy signals and give images with high resolution Thus, a $CHCl_3$ solution of a 1:1 mixture of ligand I and chelate II (1 mM concentration each) was spread on a 0.1 mM $CdCl_2$ solution to form a mixed monomol. layer and transferred onto a glass plate. The process was repeated until 5 stacked monomol. layers were formed. Patternwise exposure of the material to UV light produced a red-purple image having a resolution of 1000 lines/mm.

IT 103781-94-8
RL: USES (Uses)
(photosensitive monomol. layers of metal chelate and, for optical recording materials and photoimaging compns.)

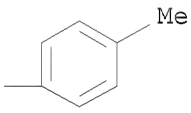
RN 103781-94-8 CAPLUS

CN 2,5,8,11,14,17,20,23-Octaazatetracosane-5,8,11,14,17,20-hexacarboxamide, 2-(2-hydroxyethyl)-N5,N8,N11,N14,N17,N20-hexakis(4-methylphenyl)-1,24-bis[(4-methylphenyl)amino]-1,24-dioxo- (CA INDEX NAME)

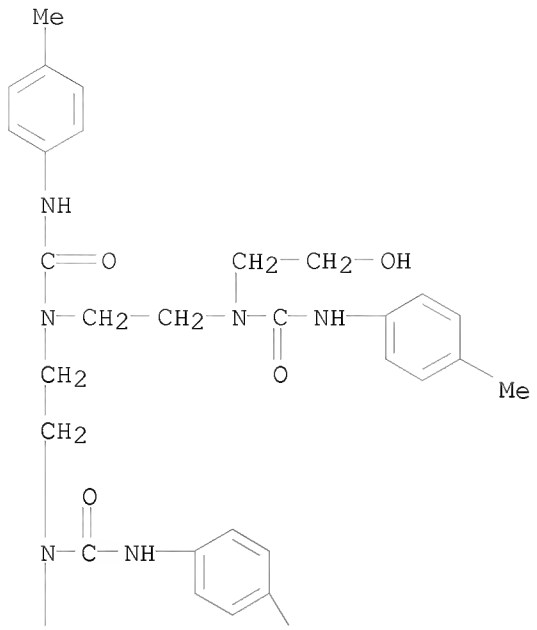
PAGE 1-A



PAGE 1-B



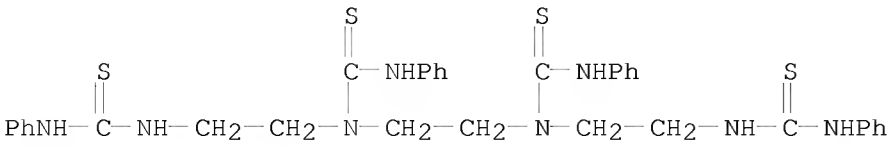
PAGE 2-A



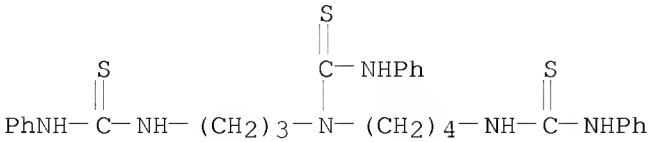
PAGE 3-A

L4 ANSWER 19 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1984:102457 CAPLUS
DN 100:102457
OREF 100:15549a,15552a
TI Catalytic properties of synthetic linear oligomer-copper complexes in autoxidation of phenols
AU Tsukube, Hiroshi; Maruyama, Kazuhiro; Araki, Takeo
CS Dep. Chem., Okayama Univ., Okayama, 700, Japan
SO Journal of the Chemical Society, Perkin Transactions 2: Physical Organic Chemistry (1972-1999) (1983), (10), 1485-90
CODEN: JCPKBH; ISSN: 0300-9580
DT Journal
LA English
AB The catalytic properties of Cu complexes of intermediate-sized ligands in the autoxidn. of phenols were examined Complexes of CuCl2 with [CH2CH2N(CONHPh)]8, [CH2CH2N(CONHBu)]n and [CH2CH2N(CSNHPh)]8 were effective catalysis for the autoxidn. of 2,6-xylenol, giving high reaction rates and good coupling selectivity.
IT 88936-58-7D, copper complexes
RL: CAT (Catalyst use); USES (Uses)

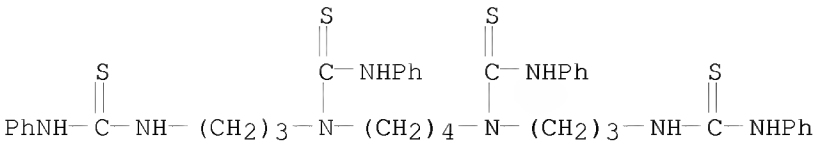
(catalysts, for autoxidn. of phenols)
RN 88936-58-7 CAPLUS
CN 2,5,8,11-Tetraazadodecanedithioamide,
N1,N12-diphenyl-5,8-bis[(phenylamino)thioxomethyl]- (CA INDEX NAME)



L4 ANSWER 20 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1982:118451 CAPLUS
DN 96:118451
OREF 96:19398h,19399a
TI Isolation, separation, and analysis of polyamines via their
N-phenylaminothiocarbonyl derivatives
AU Golding, Bernard T.; Nassereddin, Ishaq K.
CS Dep. Chem. Mol. Sci., University of Warwick, Coventry, CV4 7AL, UK
SO Journal of Chemical Research, Synopses (1981), (11), 342
CODEN: JRPSDC; ISSN: 0308-2342
DT Journal
LA English
AB Polyamines react rapidly with PhNCS in aqueous EtOH to form fully blocked
N-phenylaminothiocarbonyl derivs. These derivs. are suitable for
chromatog. separation and NMR spectroscopic anal. E.g., cells were obtained
from an Escherichia coli culture, washed with aqueous NaCl and KCl, and
extracted
with aqueous TCA. The extract was filtered, extracted with Et2O, and the
aqueous layer
kept. The pH of the aqueous layer was adjusted to 9 with aqueous Na2CO3;
PhNCS in
EtOH was added, and the mixture stirred 1 h at room temperature Extraction
with CH2Cl2
gave a residue containing mainly the phenylaminothiocarbonyl derivs. of
putrescine and spermidine, which were separated by preparative TLC.
IT 81065-67-0P 81065-68-1P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and NMR of)
RN 81065-67-0 CAPLUS
CN Thiourea, N'-phenyl-N-[4-[[(phenylamino)thioxomethyl]amino]butyl]-N-[3-
[[(phenylamino)thioxomethyl]amino]propyl]- (CA INDEX NAME)

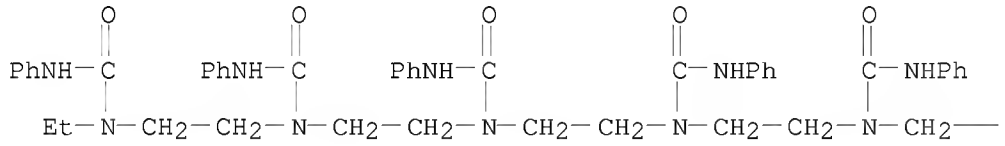


RN 81065-68-1 CAPLUS
CN 2,6,11,15-Tetraazahexadecanedithioamide,
N1,N16-diphenyl-6,11-bis[(phenylamino)thioxomethyl]- (CA INDEX NAME)

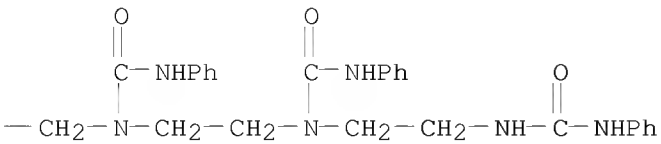


L4 ANSWER 21 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1981:527566 CAPLUS
DN 95:127566
OREF 95:21291a,21294a
TI Highly selective membrane transport of copper(II) ion by synthetic linear oligomer carriers
AU Maruyama, Kazuhiro; Tsukube, Hiroshi; Araki, Takeo
CS Dep. Chem., Kyoto Univ., Kyoto, 606, Japan
SO Journal of the Chemical Society, Dalton Transactions: Inorganic Chemistry (1972-1999) (1981), (7), 1486-91
CODEN: JCDTBI; ISSN: 0300-9246
DT Journal
LA English
AB A new class of synthetic linear oligomeric carriers having urea or thiourea units exts. and transports transition metal ions with high selectivity. The rates and specificities in this transport system are dependent on the carrier structure, the nature of the cotransported anions, and other additives. The best carrier, the urea-containing oligomer [CH2CH2N(CONHPh)]8, shows completely selective transport of Cu2+ through a CH2Cl2 liquid membrane between aqueous phases, and is thus a chemical analog of biol. Cu transport.
IT 74010-59-6
RL: BIOL (Biological study)
(metal ion transport by, through liquid membrane)
RN 74010-59-6 CAPLUS
CN 2,5,8,11,14,17,20,23-Octaazatetracosane-5,8,11,14,17,20-hexacarboxamide, 2-ethyl-1,24-dioxo-N5,N8,N11,N14,N17,N20-hexaphenyl-1,24-bis(phenylamino)- (CA INDEX NAME)

PAGE 1-A



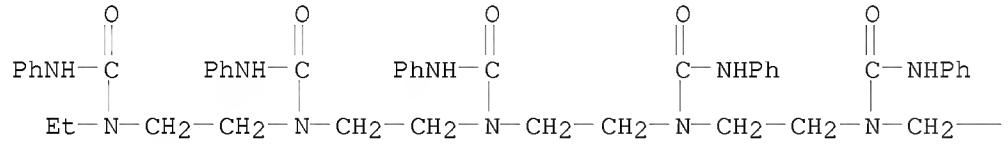
PAGE 1-B



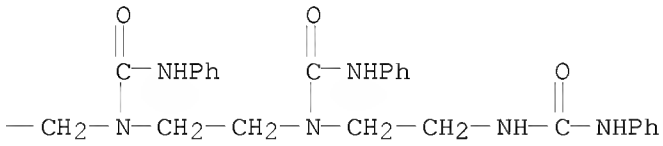
OSC.G 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

L4 ANSWER 22 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1981:132566 CAPLUS
DN 94:132566
OREF 94:21563a,21566a
TI An artificial oligomer carrier for transport of organic substrates
AU Maruyama, Kazuhiro; Tsukube, Hiroshi; Araki, Takeo
CS Dep. Chem., Kyoto Univ., Kyoto, 606, Japan
SO Journal of the Chemical Society, Chemical Communications (1980), (24), 1222-4
CODEN: JCCCAT; ISSN: 0022-4936
DT Journal
LA English
AB A new type of lipophilic host oligomer H[CH2CH2N(CONHPh)]8H (I), prepared by ring-opening oligomerization of 1-(N-phenylcarbamoyl)aziridine, efficiently transported biol. important adenine, amino acid, and catechol amine salts as well as simple amine derivs. through artificial membranes. The extraction and transport of organic cation salts by I was compared with dibenzo-18-crown-6 (II). I showed a high specificity towards aromatic amines whereas II extracted and transported both aliphatic and aromatic amines.
IT 74010-59-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, and organic cation salt extraction and transport by)
RN 74010-59-6 CAPLUS
CN 2,5,8,11,14,17,20,23-Octaazatetracosane-5,8,11,14,17,20-hexacarboxamide, 2-ethyl-1,24-dioxo-N5,N8,N11,N14,N17,N20-hexaphenyl-1,24-bis(phenylamino)- (CA INDEX NAME)

PAGE 1-A



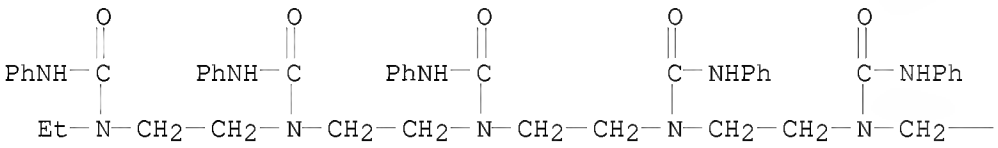
PAGE 1-B



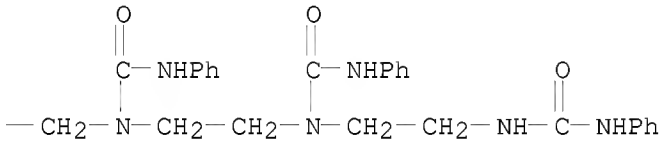
L4 ANSWER 23 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1980:421127 CAPLUS
DN 93:21127
OREF 93:3543a,3546a
TI New membrane carrier for selective transport of metal ions
AU Maruyama, Kazuhiro; Tsukube, Hiroshi; Araki, Takeo
CS Fac. Sci., Kyoto Univ., Kyoto, 606, Japan
SO Journal of the American Chemical Society (1980), 102(9), 3246-7

CODEN: JACSAT; ISSN: 0002-7863
DT Journal
LA English
AB A selective membrane system containing a new class of synthetic oligomers, I, II, and III, as mobile carriers is described. This membrane system transported Cu (II) with excellent selectivity and high efficiency, and provided a chemical analog to biol. facilitated transport.
IT 74010-59-6 74010-60-9
RL: BIOL (Biological study)
(as membrane carrier, for cation transport)
RN 74010-59-6 CAPLUS
CN 2,5,8,11,14,17,20,23-Octaazatetracosane-5,8,11,14,17,20-hexacarboxamide, 2-ethyl-1,24-dioxo-N5,N8,N11,N14,N17,N20-hexaphenyl-1,24-bis(phenylamino)- (CA INDEX NAME)

PAGE 1-A

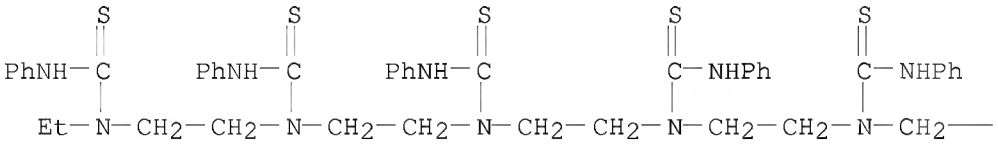


PAGE 1-B

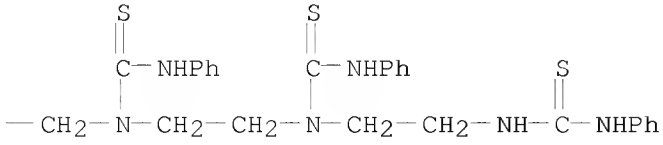


RN 74010-60-9 CAPLUS
CN 2,5,8,11,14,17,20,23-Octaazapentacosane-5,8,11,14,17,20,23-heptacarbothioamide, N,N',N'',N''',N'''',N''''',N'''''',-heptaphenyl-1-(phenylamino)-1-thioxo- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



OSC.G 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)

L4 ANSWER 24 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1976:45964 CAPLUS
DN 84:45964
OREF 84:7553a,7556a
TI Polythioureas to inhibit ozone fading of dyed polyamides
IN Wells, Rodney Lee; Lofquist, Robert A.; Lazarus, Stanley D.
PA Allied Chemical Corp., USA
SO U.S., 7 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

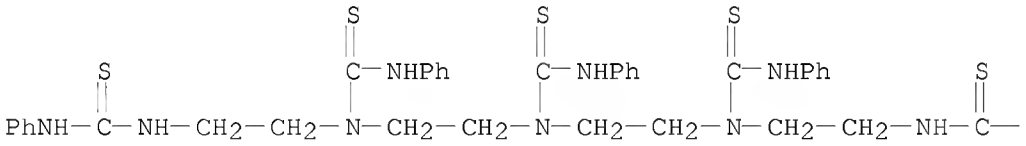
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 3917449	A	19751104	US 1974-441595	19740211
			US 1974-441595	19740211

AB Ozone [57898-00-7] fading of polyamide fibers dyed with disperse or cationic dyes was reduced by coating the fibers with polythioureas prepared by treating alkyl isothiocyanates with primary or secondary amines or polyamines such as dimer diamine. Thus, nylon 6 yarn was knitted into sleeves which were sprayed with D(NHHCSNHCH2H:CH2]2 (D is a C36 hydrocarbon residue of a dimer acid) to provide 1.1% add-on and dyed with C. I. Disperse Yellow 3 and C. I. Disperse Blue 7. When the dyed sleeves were exposed to 3 cycles of O3 in an atmospheric containing 0.2 ppm O3 at 104°F and relative humidity .apprx.90%, the fading was much smaller than that of a control containing no polythiourea. The lightfastness, determined by exposure to a xenon lamp at 145°, was 60 hr compared to 40 hr for the untreated control.

IT 57898-07-4
RL: USES (Uses)
(ozone fading prevention by, of cationic and disperse dyes on polyamide fibers)

RN 57898-07-4 CAPLUS
CN 2,5,8,11,14-Pentaazapentadecanedithioamide, N1,N15-diphenyl-5,8,11-tris[(phenylamino)thioxomethyl]- (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

— NHPh

OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L4 ANSWER 25 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1963:448249 CAPLUS
DN 59:48249
OREF 59:8696b-h,8697a-f
TI Reactions of 2-vinylpyridine with aliphatic diamines
AU Profft, Elmar; Lojack, Siegfried
CS Tech. Coll. Chem., Leuna-Merseburg, Germany
SO Rev. Chim., Acad. Rep. Populaire Roumaine (1962), 7(1), 405-29
DT Journal
LA German
AB The reactions between 2-vinylpyridine (Ia) and 4 aliphatic diamines, ethylene-, tetramethylene-, hexamethylene-, and octamethylenediamine, were studied, and the expected mono-, di-, tri-, and tetra-addition compds. obtained. The best operating conditions were obtained for each product; paper-chromatographic separation [Patridge mixture (40:10:50 BuOH-AcOH-H2O, pH 2.9) as ascending agent, 0.2% ninhydrin in BuOH as developing agent] has enabled insight into the reaction mechanism and course. It was determined that generally the mono- and di-addition products were best prepared in C6H6 with AcOH or EtCO2H as catalyst, while the tri- and tetra-addition compds. were formed at high temps. and long reaction times, with the same catalysts. These new amines were examined for their structure by conversion with ethylene oxide to aminoalcs., by cyclization to morpholines, by reaction with acrylonitrile to cyanoethyl compds., by ketenization, and some other measures. Diazotization of N,N-bis[2-(2-pyridyl)ethyl]ethylenediamine has proven that the reaction between diamines and 2 moles Ia takes place by addition at the N,N-position. The following compds. were obtained [% yield, b.p./mm., n20D given), all (unless otherwise stated) being liquids, soluble in water, EtOH, and ether]: N-[2-(2-pyridyl)ethyl]ethylenediamine, 29.1, 77°/0.01, 1.5382; N-[2(2-pyridyl)ethyl]-N-acetylethylenediamine, 43.3, 108°/0.003, 1.5463; N-[2-(2-pyridyl)ethyl]-N,N'-diacetylethylenediamine, 45.8, 136°/0.003, 1.5496; N-[2-(2-pyridyl)ethyl]-N'-(β-hydroxyethyl)ethylenediamine, 50, 110°/0.003, 1.5342, N-[2-(2-pyridyl)ethyl]-N',N'-bis(β-hydroxyethyl)ethylenediamine, 73, 138°/0.01, 1.5265; N-2-[β-(2-pyridyl)ethylamino]-1-morpholinoethane, 43.5, 75-80°/15, 1.5140; N-[2-(2-pyridyl)ethyl-N,N',N'-tris(β-hydroxyethyl)ethylenediamine, 41, 172°/0.01, 1.5123; N-[2-(2-pyridyl)ethyl]-N-(dichloroacetyl)-N,N'-bis(dichloroacetoxyethyl)ethylenediamine, 21, - (yellow, m. 170°), -, N-[2-(2-pyridyl)ethyl]-β-benzoyloxyethylamine, 38, - (m. 152°); N-2-(2-pyridyl)ethyl-N,N'-bis(octylsulfonyl)ethylenediamine, 84, - (m. 77°), -; N-[2-(2-pyridyl)ethyl]-N,N',N'tris(butylsulfonyl)ethylenediamine, 72, - (decomposed 270°), -; N-[2-(2-pyridyl)ethyl]-N,N'-dicarbanilidoethylenediamine, 81, - (m. 138°), -; N-[2-(2-pyridyl)ethyl]-N'-butylethylenediamine, 22, 69°/0.001, 1.5075; N-[2-(2-pyridyl)ethyl]tetramethylenediamine, 43.6, 83°/0.01, 1.5268; N-[2-(2-pyridyl)ethyl]-N'-acetyltetramethylenediamine, 41, 108°/0.001, 1.5205; N-[2-(2-pyridyl)ethyl]-N,N'-diacetyltetramethylenediamine, 44, 138°/0.001, 1.5262; N-[2-(2-pyridyl)ethyl]-N'-(β-hydroxyethyl)tetramethylenediamine, 45.4, 120°/0.01, 1.5220; N-[2-(2-pyridyl)ethyl]-N,N-bis(β-hydroxyethyl)tetramethylenediamine, 73.9, 150°/0.01, 1.5187; 1-[β-(2-pyridyl)ethylamino]-4-morpholinobutane, 32, 100°/1, 1.5096; N-[2-(2-pyridyl)ethyl]-N,N,N-tris(β-hydroxyethyl)tetramethylenediamine, 30, 175°/-, 1.5047;

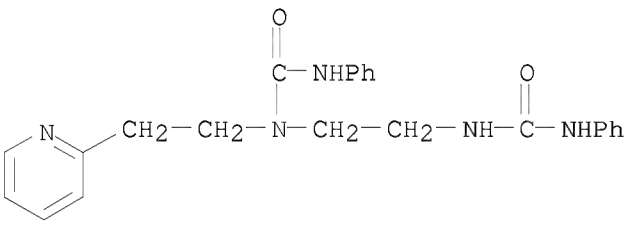
N-[2-(2-pyridyl)ethyl]-N,N'-dicarbanilidotetramethylenediamine, 94.2, - (m. 156°), -; N-[2-(2-pyridyl)ethyl]hexamethylenediamine (I), 45.3, 91-3°/0.002, 1.5160; N-[2-(2-pyri dyl)ethyl]-N'-acetylhexamethylenediamine, 38.2, 118°/0.002 1.5038 (insol. in water); N-[2-(2-pyridyl)ethyl)-N,N'-diacetylhexamethylenediamine, 43.4, 143°/0.002, 1.5192 (insol. in water); N-[2-(2-pyridyl)ethyl]-N,N',N'-triacetylhexamethylenediamine, 37.7, 205°/0.02, 1.5230 (no solubility given); N-[2-(2-pyridyl)ethyl]-N'-(β-hydroxyethyl)hexamethylenediamine, 47, 125°/0.01, 1.5168 (no solubility given); N-[2-(2-pyridyl)ethyl]N',N'-bis(β-hydroxyethyl)hexamethylenediamine, 50, 166-8°/0.004, 1.5101; 1-[β-(2-pyridyl)ethylamino-1-6-N-morpholino-n-hexane, 32, 110°/1, 1.5026 (no solubility given); N-[2-(2-pyridyl)ethyl]-N,N',N'-tris(β-hydroxyethyl)hexamethylenediamine, 60, 186°/0.01, 1.5000; N-[2-(2-pyridyl)ethyl]octamethylenediamine, 46.8, 113°/0.002, 1.5100; N-[2-(2-pyridyl)ethyl]-N'-acetyloctamethylenediamine, 40, 125°/0.001, 1.5027 (no solubility given); N-[2-(2-pyridyl)ethyl]-N,N'-diacetyloctamethylenediamine, 37, 165°/0.002, 1.5126; N-[2-(2-pyridyl)ethyl)-N,N',N'-triacetyloctamethylenediamine, 61, 208°/0.001, 1.5216 (no solubility given); N-[2-(2-pyridyl)ethyl]-N'-(β-hydroxyethyl)octamethylenediamine, 49, 126°/0.001, 1.5023; N-[2-(2-pyridyl)ethyl]-N,N'-bis(β-hydroxyethyl)octamethylenediamine, 40.4, 172°/0.02, 1.5158; N,N-bis[2-(2-pyridyl)ethyl]ethylenediamine, 4.7, 120°/0.004, 1.5426 (no solubility given); N,N-bis[2-(2-pyridyl)ethyl]-N'-acetylethylenediamine, 37, 138-40°/0.003, 1.5464 (insol. in water); N,N-bis[2-(2-pyridyl)ethyl]-N,N'-diacetylethylenediamine, 25, 156°/0.003, 1.5410 (no solubility given); N,N-bis[2-(2-pyridyl)ethyl]-N-(2-benzoyloxyethyl)amine, 32.5, - (m. 172°), -; N,N-bis [2-(2-pyridyl)ethyl] tetramethylenediamine, 1.76, 128°/0.001, 1.5368; N,N-bis[2-(2-pyridyl)ethyl]hexamethylenediamine, 14.3, 136°/0.002, 1.5216; N,N-bis[2-(2-pyridyl)ethyl]-N'-acetylhexamethylenediamine, 31, 143°/0.001, 1.5142; N,N-bis[2-(2-pyridyl)ethyl]-N',N'-diacetylhexamethylenediamine, 25, 163°/0.002, 1.5236; N,N-bis[2-(2-piperidyl)ethyl]hexamethylenediamine, 68.3, 136°/0.002, 1.5216; N,N-bis[2-(2-pyridyl)ethyl]bis(β-hydroxyethyl)hexamethylenediamine, 53, 160°/0.005, 1.5074, N,N-bis[2-(2-pyridyl)ethyl)]octamethylenediamine, 13.6, 148°/0.001, 1.5246; N,N,N'-tris[2-(2-pyridyl)ethyl]ethylenediamine, 27.4, 148°/0.01, 1.5544; N,N,N'-tris[2-(2-pyridyl)ethyl]-N'-acetylethylenediamine, 58.8, 180°/0.01, 1.5361 (no solubility given); N,N,N'-tris[2-(2-pyridyl)ethyl]-N'ethoxymethylethylenediamine, 13.9, 90-5°/0.02, 1.5563; N-[2-(2-pyridyl)ethyl]-N,N'-bis[β-(2-pyridyl)-γ-hydroxypropyl]-N'-ethoxymethylethylenediamine, 56.3, 168°/0.001, 1.5642 (no solubility given); N-[2-(2-pyridyl)ethyl]-N,N'-bis[β-(2-pyridyl)allyl]-N'-ethoxymethylethylenediamine, 43.2, -, 1.5667 (no solubility given); N,N,N'-tris[2-(2-pyridyl)-β,β-bis(hydroxymethyl)ethyl]-N'-ethoxymethylethylenediamine, 70.5, -, 1.5720 (no solubility given); N,N,N'-tris[2-(2-pyridyl)ethyl)tetramethylenediamine, 26.6, 156°/0.001, 1.5487; N,N,N'-tris[2-(2-pyridyl)ethyl]-N'-acetyltetramethylenediamine, 78, 162°/0.001, 1.5316; N,N,N'-tris[2-(2-pyridyl)ethyl]-N'-(β-cyanoethyl)tetramethylenediamine, 61.7, 158°/0.02, 1.5318;

N,N,N'-tris[2-(2-pyridyl)ethyl]hexamethylenediamine, 27.1, 163°/0.001, 1.5340; N,N,N'-tris[2-(2-pyridyl)ethyl]-N'-acetylhexamethylenediamine, 86.3, 175°/0.005, 1.5348; N,N,N'-tris[2-(2-pyridyl)ethyl]-N'-(β-hydroxyethyl)hexamethylenediamine, 72, 139°/0.001, 1.5191; N,N,N'-tris[2-(2-pyridyl)ethyl]-N'-(cyanoethyl)hexamethylenediamine, 53.5, 193°/0.08, 1.5020 (no solubility given); N,N,N'-tris[2-(2-pyridyl)ethyl]-N-(γ-aminopropyl)hexamethylenediamine, 79.5, 152°/0.002, 1.5175 (no solubility given); N,N,N'-tris[2-(2-pyridyl)ethyl]-N'-(2-carbamoylethyl)hexamethylenediamine, 39, - (m. 342°), -; N,N,N'-tris[2-(2-pyridyl)ethyl]-N'-carbanilidohexamethylenediamine, 79, - (m. 134°), -; N,N,N'-tris[2-(2-pyridyl)ethyl]-N'-(thiocarbanilido)hexamethylenediamine, 68.6, - (m. 85°), -; N,N,N'-tris[2-(2-pyridyl)ethyl]-N'-propen-2-ylhexamethylenediamine, 18.3, 95-100°/0.001, 1.5118 (no solubility given); N,N,N'-tris[2-(2-pyridyl)ethyl]octamethylenediamine, 52.9, 185°/0.001, 1.5380 (no solubility given); N,N,N'-tris[2-(2-pyridyl)ethyl]-N'-acetyloctamethylenediamine, 59.4, 193°/0.001, 1.5219 (no solubility given); N,N,N'-tris[2-(2-pyridyl)ethyl]-N'-(β-cyanoethyl)octamethylenediamine, 66.4, 162°/0.02, 1.5073; N,N,N',N'-tetrakis[2-(2-pyridyl)ethyl]ethylenediamine, 5, 183°/0.01, 1.5616 (no solubility given); N,N,N',N'-tetrakis[2-(2-pyridyl)ethyl]tetramethylenediamine, 2, 183-5°/0.001, 1.5546 (no solubility given); N,N,N',N'-tetrakis[2-(2-pyridyl)ethyl] hexamethylenediamine, 2.8, 220°/0.02, 1.5452 (no solubility given); N,N,N',N'-tetrakis[2-(2-pyridyl)ethyl]octamethylenediamine, 2.55, 225°/0.001, 1.5463 (no solubility given).

IT 102218-88-2P, Urea, 1-[2-(2-pyridyl)ethyl]-1,1'-ethylenebis[3-phenyl- 103734-40-3P, Urea, 1-[2-(2-pyridyl)ethyl]-1,1'-tetramethylenebis[3-phenyl-
RL: PREP (Preparation)
(preparation of)

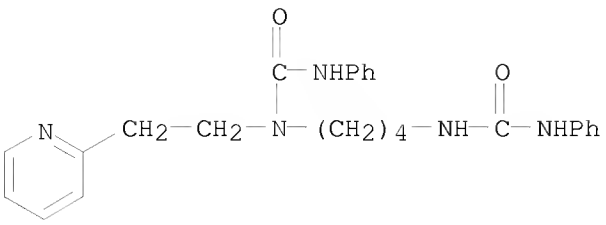
RN 102218-88-2 CAPLUS

CN Urea, 1-[2-(2-pyridyl)ethyl]-1,1'-ethylenebis[3-phenyl- (7CI) (CA INDEX NAME)



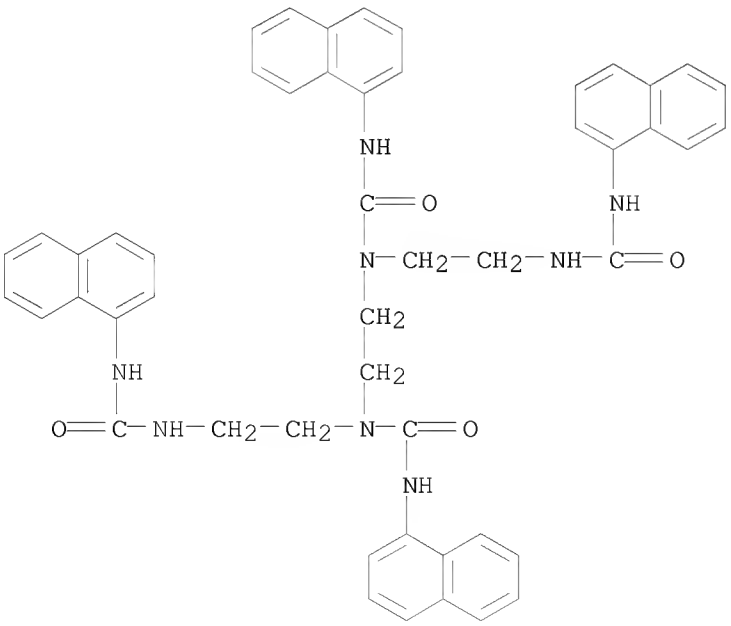
RN 103734-40-3 CAPLUS

CN Urea, 1-[2-(2-pyridyl)ethyl]-1,1'-tetramethylenebis[3-phenyl- (7CI) (CA INDEX NAME)

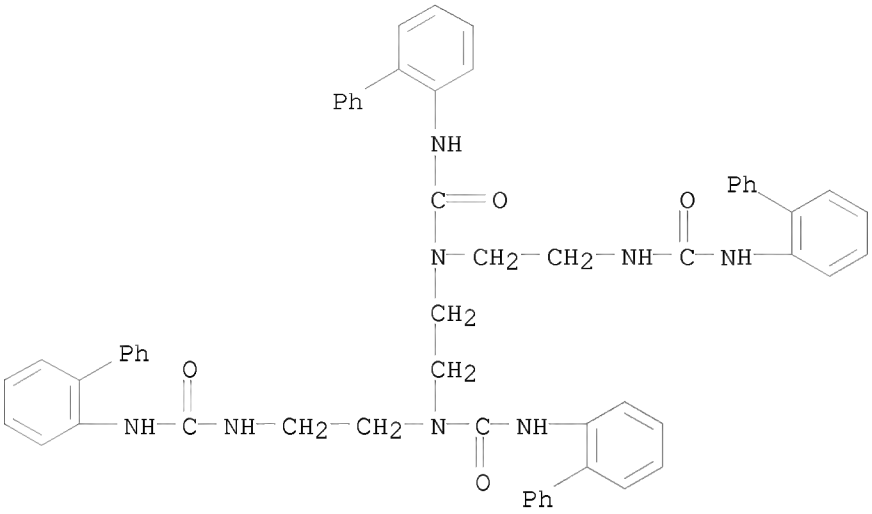


OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

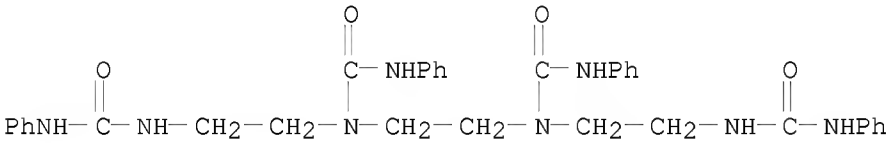
L4 ANSWER 26 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1958:92326 CAPLUS
DN 52:92326
OREF 52:16185d-e
TI Reaction of free radicals in solutions. VII. Role of activators in the process of decomposition of triazenes and in initiation of polymerization
AU Andakuskin, V. Ya.; Dolgoplosk, B. A.; Radchenko, I. I.
SO Zhurnal Obshchei Khimii (1956), 26, 3789-95
CODEN: ZOKHA4; ISSN: 0044-460X
DT Journal
LA English
AB See C.A. 51, 9511g.
IT 108515-69-1P, Urea, 1,1'-ethylenebis[3-(1-naphthyl)-1-[2-[3-(1-naphthyl)ureido]ethyl]- 108992-90-1P, Urea, 1,1'-ethylenebis[3-(2-biphenylyl)-1-[2-[3-(2-biphenylyl)ureido]ethyl]- 122595-05-5P, Urea, 1,1'-ethylenebis[3-phenyl-1-[2-(3-phenylureido)ethyl]-
RL: PREP (Preparation)
(preparation of)
RN 108515-69-1 CAPLUS
CN 2,5,8,11-Tetraazadodecanediamide, N1,N12-di-1-naphthalenyl-5,8-bis[(1-naphthalenylamino)carbonyl]- (CA INDEX NAME)



RN 108992-90-1 CAPLUS
CN 2,5,8,11-Tetraazadodecanediamide, N1,N12-bis([1,1'-biphenyl]-2-yl)-5,8-bis[([1,1'-biphenyl]-2-ylamino)carbonyl]- (CA INDEX NAME)



RN 122595-05-5 CAPLUS
CN 2,5,8,11-Tetraazadodecanediamide, N1,N12-diphenyl-5,8-bis[(phenylamino)carbonyl]- (CA INDEX NAME)



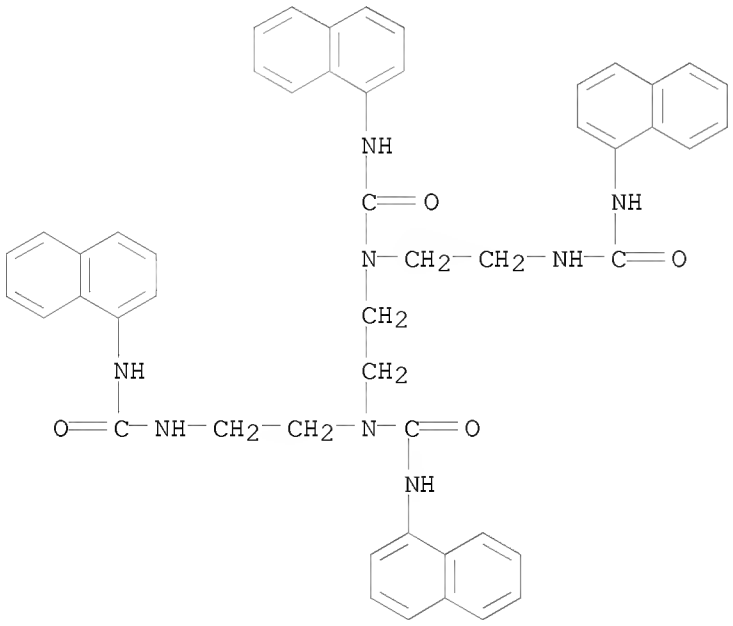
L4 ANSWER 27 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1958:92325 CAPLUS
DN 52:92325
OREF 52:16185b-d
TI Tetracarbamyl derivatives of 1,2-bis(2-aminoethyl)ethylenediamine
AU Neville, Roy G.
CS Fine Chemicals, Inc., Seattle, WA
SO Journal of Organic Chemistry (1958), 23, 296-7
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA Unavailable
AB (CH2)2[NH(CH2)2NH2]2, (I) was fractionally distilled and the liquid, b20 157°, collected and stored in brown bottles. The following general method for preparing [CH2N(CONHR)(CH2)2NHCONHR]2 (II) was as follows. The isocyanate (0.04 mole) was added cautiously to 1.46 g. I in 10–20 ml. ice-cold CHCl3 (strongly exothermic reaction) and the temperature maintained below 30°, on cooling the crystalline derivative filtered off, washed, dried, and recrystd. from iso-PrOH to give II. When 1:2 or 3:4 molar ratios of I and toluene 2,4-diisocyanate or toluene 2,4,6-triisocyanate were used the products were viscous polymers. The following II were thus

prepared (R, % yield, and m.p. given): allyl, 97, 211°; iso-Pr, 96, 245-7° (decomposition); Bu, 98, 216-17°; cyclohexyl, 100, 246-7° (decomposition); Ph, 100, 237-8°; Me(CH2)7, 98, 97-8°; dodecyl, 96, 170-1°; octadecyl, 95, 162°; α-C10H7, 98, 182°; β-C10H7, 92, 222°. The lower-member products were crystalline whereas the higher- or long-chain derivs. were waxy solids easily soluble in alc.

IT 108515-69-1P, Urea, 1,1'-ethylenebis[3-(1-naphthyl)-1-[2-[3-(1-naphthyl)ureido]ethyl]- 108992-90-1P, Urea, 1,1'-ethylenebis[3-(2-biphenylyl)-1-[2-[3-(2-biphenylyl)ureido]ethyl]- 122595-05-5P, Urea, 1,1'-ethylenebis[3-phenyl-1-[2-(3-phenylureido)ethyl]-
RL: PREP (Preparation)
(preparation of)

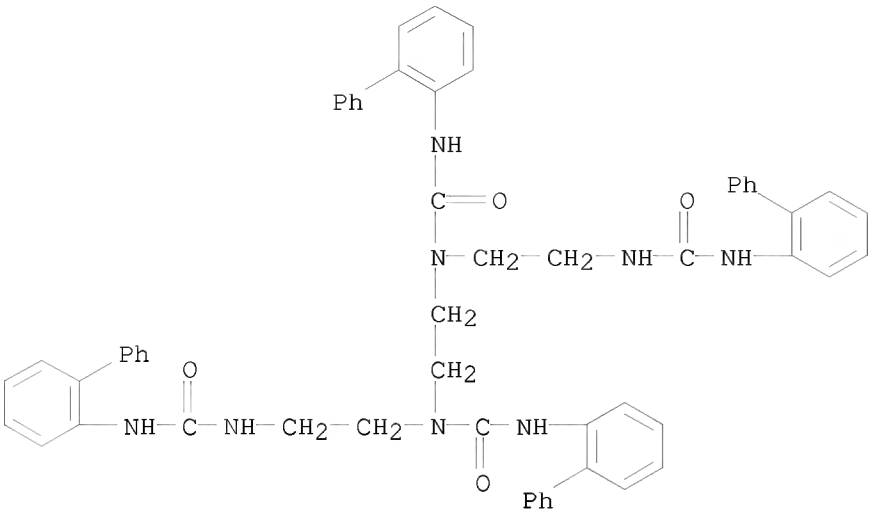
RN 108515-69-1 CAPLUS

CN 2,5,8,11-Tetraazadodecanediamide, N1,N12-di-1-naphthalenyl-5,8-bis[(1-naphthalenylamino)carbonyl]- (CA INDEX NAME)

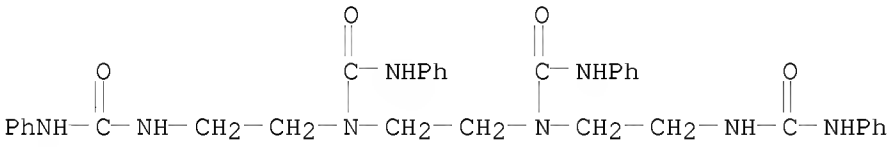


RN 108992-90-1 CAPLUS

CN 2,5,8,11-Tetraazadodecanediamide, N1,N12-bis([1,1'-biphenyl]-2-yl)-5,8-bis[([1,1'-biphenyl]-2-ylamino)carbonyl]- (CA INDEX NAME)



RN 122595-05-5 CAPLUS
CN 2,5,8,11-Tetraazadodecanediamide, N1,N12-diphenyl-5,8-bis[(phenylamino)carbonyl]- (CA INDEX NAME)



L4 ANSWER 28 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1957:62160 CAPLUS
DN 51:62160
OREF 51:11268b-i,11269a-i,11270a-f
TI Preparation and bacteriostatic activity of substituted ureas
AU Beaver, David J.; Roman, Daniel P.; Stoffel, Paul J.
CS Monsanto Chem. Co., St. Louis, MO
SO Journal of the American Chemical Society (1957), 79, 1236-45
CODEN: JACSAT; ISSN: 0002-7863
DT Journal
LA Unavailable
AB cf. C.A. 49, 924b. The preparation and in vitro bacteriostatic activity of some ureas, carbanilides, and related compds. against Micrococcus pyrogenes var. aureus are described. The bacteriostatic properties of ureas were remarkably specific in that activity was greatly enhanced or completely lost with slight changes in chemical structure. Activity is drastically reduced by o-substitution regardless of the electronic character of the substituent. Thioureas were invariably less effective than similarly substituted ureas. Bromocarbanilides were less active than the Cl compds. in both ureas and thioureas. Procedure A: PhNCO (11.9 g.) in 50 cc. Et2O added dropwise to 16.2 g. 3,4-Cl2C6H3NH2 (I) in 50 cc. Et2O, the mixture held 2 hrs., and filtered yielded 3,4-dichlorocarbanilide. In the subprocedures the following solvents were used: A2, Skellysolve; A3, C6H6; A4, Me2CO; A5, absolute EtOH; A6, none; A7, none, 4 hrs. at 90°. Procedure B: 3,4-Cl2C6H3NCS (20.4 g.) and 16.2 g. I in 75 cc.

absolute EtOH refluxed 1 hr. yielded 3,3',4,4'-tetrachlorothiocarbanilide. Procedure C: PhNCO (11.9 g.) in 400 cc. Et2O at 20° treated with anhydrous NH3 yielded phenylurea. Procedure D: 2-C10H7NH2 (60.0 g.) and 24.0 g. urea heated to 160° and held there 3 hrs. yielded 1,3-di-2-naphthylurea. Procedure E: Cyclohexylamine (60.0 g.) in 800 cc. PhMe treated at 100° with COCl2 yielded 1,3-dicyclohexylurea. For compds. of the type RNHC(:X)NHR', R, X, R', procedure, % yield, and m.p. are: H, O, 2-C10H7, C, 96.8, 212° (decomposition); H, O, 4-biphenylyl, C, 97.0, 209° (decomposition); 1-C10H7, O, 1-C10H7, D, 49.8, 295-6°; 2-C10H7, O, 2-C10H7, D, 86.7, 305-6°; 2-C10H7, O, CH2CH2CH2OMe, A, 80.0, 142.5-3.0°; 1-C10H7, O, cyclohexyl, A, 100.0, 237.0-8.0°; 2-C10H7, O, dicyclohexyl, A, 99.3, 177.3-7.8°; cyclohexyl, O, cyclohexyl, E, 30.2, 226.0-7.0°; dicyclohexyl, O, Et, A, 87.4, 146.8-7.5°; dicyclohexyl, O, dicyclohexyl, E, 36.5, 81.0-1.7°; cyclohexyl, S, Ph, A5, 91.5, 150.1-50.9°; cyclohexyl, S, 4-C6H4OEt, B, 74.5, 122.2-3.0°; cyclohexyl, S, 4-Me2NC6H4, B, 91.0, 127.0-7.8°; cyclohexyl, S, 1-C10H7, B, 74.2, 141.8-2.5°; cyclohexyl, S, dicyclohexyl, B, 49.2, 103.2-3.6°; Ph, S, 4-Me2NC6H4, B, 84.2, 154.4-4.8°; Ph, S, 2-C10H7, B, 83.6, 158.2-9.0°; Ph, S, dicyclohexyl, B, 63.7, 86.5-7.3°; Ph, S, 4-C6H4OEt, A5, 89.8, 133.9-4.3°; 3,4-Br2C6H3, S, 4-BrC6H4, A7, 47.5, 125.0-6.1°. For RC6H4NHCONR1R2, R, R1, R2, procedure, % yield, and m.p. are: H, H, H, C, 61.5, 148.5-9.0°; H, H, CH2CH2CH2NEt2, A6, 100, 69.5-70.0°; H, H, CH2CH2CH2NHCHMe2, A2, 58.0, 143.7-4.2°; H, H, CH2CH2CH2OMe, A7, 100.0, 87.5-8.2°; H, H, cyclohexyl, A7, 97.3, 186.3-7.1°; H, H, 2-C10H7, A5, 73.3, 233.0-4.0°; H, cyclohexyl, cyclohexyl, A, 79.4, 180.3-1.3°; H, allyl, allyl, A2, 100.0, 65.5-6.0°; H, PhNHCONHCH2CH2CH2, PhNHCONHCH2CH2CH2, A6, 100, 132° (decomposition); H, Bu, Bu, A6, 98.6, 82.7-3.0°; H, heptyl, heptyl, A, 76.0, -; H, 2-ethylhexyl, 2-ethylhexyl, A7, 93.7, -; H, Ph, Ph, A7, 86.8, 136.0-6.6°; 2-Me, H, cyclohexyl, A, 95.1, 196.1-6.5°; 2-Me, cyclohexyl, cyclohexyl, A, 86.0, 142.2-2.8°; 4-Me, H, cyclohexyl, A, 100.0, 205.2-5.8°; 4-Me, cyclohexyl, cyclohexyl, A, 91.5, 173.4-3.7°; 2-MeO, cyclohexyl, cyclohexyl, A, 100.0, 155.3-6.0°; 2-EtO, H, CH2CH2CH2OMe, A6, 78.0, 86.6-7.2°; 2-EtO, H, 2-C10H7, A, 71.0, 177.5-8.2°; 2-EtO, cyclohexyl, cyclohexyl, A, 65.2, 99.8-100.4°; 4-EtO, H, Et, A, 85.3, 151.9-2.4°; 4-EtO, H, 1-C10H7, A, 97.6, 238.0-9.0°; 4-EtO, H, 2-C10H7, A, 99.3, 237.4-8.0°; 4-EtO, H, cyclohexyl, A, 95.6, 182.6-3.0°; 4-EtO, cyclohexyl, cyclohexyl, A, 91.8, 149.6-50.2°; dodecyl, cyclohexyl, cyclohexyl, A2, 100.0, -; 4-Me2N, 1-C10H7, H, A, 96.0, 227.5-8.5°; 4-Me2N, 2-C10H7, H, A, 91.3, 252-3°; 2-Ph, H, Et, A, 88.0, 114.6-15.2°; 2-Ph, cyclohexyl, cyclohexyl, A, 100, 110.0-10.7°; 2-Ph, H, CH2CH2CH2NEt2, A6, 100.0, 76.4-7.0°; 4-Cl, formyl, 2,4-Cl2C6H3, A7, 85.3, 118.5-19.1°; 4-Cl, formyl, 3,4-Cl2C6H3, A7, 63.0, 122.5-3.5°; 4-Cl, allyl, 3,4-Cl2C6H3, A2, 87.2, 151.2-2.0°; 2-MeO, formyl, 2,5-Cl2C6H3, A7, 71.0, 152.5-3.0°. For compds. of the type RC6H4NHCONHC6H4R', R, R' (all procedure A except as noted), % yield, and m.p. are: H, 2-MeO, 84.3, 146.2-6.8°; H, 2-EtO, 94.4, 173.8-4.2°; H, 4-EtO, 100.0, 188.2-8.8°; H, 2-Et, 61.2, 184.9-5.5°; H, 4-Me2N, 94.0, 208.0-8.8°; H, 4-Et2N, 88.8, 178.7-9.3°; H, 2-Ph, 95.7, 173.0-3.6°; H, 4-Ph, 85.5, 240-1°; H, 4-H2N, 78.5, above 400°; H, 4-PhNH, 98.2, 212.8-13.8°; H, 4-Cl, 95.0, 250-1°; 2-MeO, 2,4-Cl2, 99.5, 222.3-3.0°; 4-MeO, 2,4-Cl2, 58.0, 230.0-30.5°; 2-EtO, 4-EtO, 65.2, 146.4-7.0°; 4-EtO,

2-Me, 84.0, 202.0-2.4°; 4-EtO, 4-Me, 100.0, 220.4-1.0°;
4-EtO, 4-Me2N, 91.1, 211.8-12.2°; 4-EtO, dodecyl, A2, 100.0, -;
4-EtO, 2-Ph, 95.8, 194.8-5.4°; 2-Ph, 4-PhNH, 86.8,
155.8-6.2°; 2-Ph, 2-Ph, 74.0, 182.2-2.8°; 4-Ph, 4-Ph, 76.5,
312° (decomposition); 4-Cl, 4-Cl, 98.0, 315-19°; 4-Cl, 2,4-Cl2,
98.0, 253.0-3.8°; 4-Cl, 2,5-Cl2, 83.0, 261.5-2.5°; 3-Cl,
3,4-Br2, 94.0, 208-5-9.0°; 2,4-Cl2, 2,4-Cl2, 97.5, 261-3°.
For 3,4-Cl2C6H3NHCONRR', R, R' (all procedure A except as noted), % yield,
and m.p. are: H, H, C, 93.7, 155.6-6.3°; H, Et, 100.0,
179.5-80.1°; H, tert-octyl, 100.0, 145.8.6°; H,
cyclohexyl, 100.0, 188.0-8.7°; H, 1-C10H7, 97.0, 265-6°;
H, 2-C10H7, 97.2, 267-8°; H, CH2CH(OH)Me, 100, 152.0-2.8°;
H, CH2CH2CH2OH, 98.8, 126.5-8.0°; H, tetrahydrofurfuryl, 100.0,
144.1-4.9°; Et, 4-ClC6H4, 77.0, 116.0-6.8°; allyl, allyl,
A2, 100.0, 62.5-3.5°; allyl, iso-Pr, 93.4, 84.0-4.5°;
CH2CH2OH, CH2CH2OH, 65.0, 156.8-7.6°; CH2:CClCH2, CH2:CClCH2, 100,
100.7-1.4°; CH2:CClCH2, iso-Pr, 100, 84.7-5.2; CH2:CClCH2, tert-Bu,
100.0, 93.9-5.0°; CHCl:CHCH2, CHCl:CHCH2, 100.0, 156.0-6.6°;
CH2:CClCH2, CH2CH2CH2OMe, A2, 100, -; CH2:CClCH2, Ph, A7, 92.9,
118.7-9.4°; H, CHCl:CClCH2, 61.2, 105.1-5.9°; Bu, Ph, 96.5,
98.5-9.4°; CH2CH2CN, Ph, 89.3, 114.7-15.5°; iso-Pr,
MeC.tplbond.C, 71.1, 84.4-5.1°; Ph, Ph, 39.5, 148.3-9.1°;
cyclohexyl, cyclohexyl, 98.0, 177.6-8.4°; cyclohexyl, MeCH:CClCH2,
88.7, 160.4-60.8°; allyl, 4-C6H4OEt, 100, -; allyl, 3,4-Cl2C6H3,
A2, 87.3, 116.8-17.5°; MeC.tplbond.C, 3,4-Cl2C6H3, 69.0,
145.2-6.0°; Bu, Ph, 96.5, 98.5-9.4°; H, 2-thiazolyl, A4,
99.0, 225° (decomposition). For 3,4-Cl2C6H3NHCONHC6H4R, R, procedure (A
unless otherwise noted), % yield, and m.p. are: H, 100, 217.2-7.7°;
4-Me, 100.0, 258.0-9.0°; 2-MeO, 95.2, 173.8-4.3°; 4-MeO,
93.5, 233.1-4.0°; 4-Me2N, 95.0, 229.6-30.4°; 4-H2N, A3,
96.0, above 360°; dodecyl, A7, 98.0, -; 2-Ph, 91.6, 183.3-4.1;
4-Ph, 84.5, 233.0-4.0°; 2-Cl, 87.0, 220.0-20.6°; 3-Cl, 91.5,
210.7-11.3°; 4-Cl, 88.0, 255.2-56.2°; 2,4-Cl2, 97.3,
238.5-9.2°; 2,5-Cl2, 94.2, 242.2-2.6°; 3,4-Cl2, 100.0,
281-2°; 3,4,5-Cl3, 100.0, 308-10°; 3-Cl-4-HO, 95.4,
237.4-8.0°; 3,5-Cl2-4-HO, 92.4, 272-3°; 3-Br, 100.0,
208.5-9.2°; 4-PhNH, 100, 208.8-9.5°; 4-HO, A3, 82.5,
213.8-14.5°; 4-NO2, 95.3, 294-5°; 4-sulfamyl, A4, 83.6,
258.5-9.5°; 4-(2-thiazolesulfamyl), A4, 82.8, 271-2°;
4-(2-pyrimidinesulfamyl), A4, 79.0, 290° (decomposition). For
RC6H4NHC:XR', R, X, R', procedure, % yield, and m.p. are; H, O,
morpholino, A, 74.5, 159.3-60.0°; H, S, morpholino, B, 72.6,
132.6-3.4°; H, O, 2-methyl-1-piperidyl, A, 94.5,
115.4-16.0°; H, O, 1,2-dihydro-2,2,4-trimethyl-1-quinolyl, A,
71.0, 125.5-6.2°; H, O, 1,2-dihydro-6-ethoxy-2,2,4-trimethyl-1-
quinolyl, A, 94.2, 146.6-7.0°; H, O,
1,2-dihydro-6-phenyl-2,2,4-trimethyl-1-quinolyl, A, 40.5,
148.0-9.1°; 4-MeO, O, morpholino, A2, 95.7, 124.5-5.0°;
2-Cl, O, morpholino, A2, 93.8, 132.2-2.8°; 3-Cl, O, morpholino, A2,
98.3, 129.7-30.3°; 4-Cl, O, 4-morpholino, A2, 91.4,
200.8-1.4°; 3,4-Cl2, O, morpholino, A, 90.0, 157.1-7.8°;
3,4-Cl2, S, morpholino, B, 96.8, 197.5-8.1°; 3,4-Cl2, O,
1-piperidyl, A, 100.0, 175.0-5.8°; 3,4-Cl2, O,
2-methyl-1-piperidyl, A2, 97.5, 171.4-1.9°; 3,4-Cl2, O,
3-methyl-1-piperidyl, A, 56.5, 115.7-6.7°; 3,4-Cl2, O,
4-methyl-1-piperidyl, A2, 92.5, 144.0-4.8°; 3,4-Cl2, O,
1-pyrrolidyl, A, 97.8, 176.8-7.4°; 3,4-Cl2, O, 2-pyrrolidon-1-yl,
A, 89.3, 151.8-2.7°; 3,4-Cl2, O, 3,4-Cl2, 2-thiono-1-pyridyl, A4,

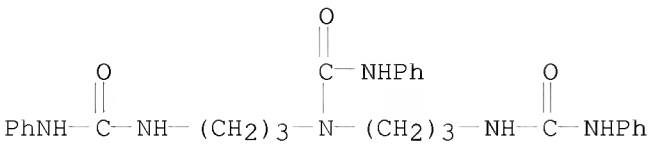
90.5, 171.9-2.8°; 3,4-Cl2, S, 2-thiono-1-pyrrolidyl, A7, 52.6,
126.7-7.2°; 3,4-Cl2, O, 3-methylpyrazin-5-on-1-yl, A4, 62.3,
228.0-9.0°; 3,4-Cl2, O, 2,4,6-trimethyl-1-piperidyl, A, 85.5,
135.3-6.1°; 3,4-Cl2, O, 1-decahydroquinolyl, A, 99.7,
160.5-1.4°; 3,4-Cl2, O, 2-decahydroisoquinolyl, A, 90.4,
144.0-5.0°; 3,4-Cl2, O, 1,2-dihydro-6-ethoxy-2,2,4-trimethyl-1-
quinolyl, A, 54.0, 139.3-40.2°. For 3,4-Cl2C6H3NHCSNRR', R, R',
procedure, % yield, and m.p. are: H, CH2CH2CH2OH, A2, 99.0, 34-5°;
H, 4-ClC6H4, B, 82.0, 154.2-4.9°; H, 3-ClC6H4, B, 75.5,
119.5-20.5°; H, Ph, B, 99.0, 136.1-7.0°; H, 3-BrC6H6, A7,
74.6, 107.5-8.3°; H, 3,4-Cl2C6H3, B, 94.5, 162.6-3.5°; H,
2-thenyl, A, 99.0, 153.2-4.1°; iso-Pr, allyl, A2, 93.4,
80.8-1.6°; iso-Pr, MeC.tplbond.C, A2, 88.7, 77.2-7.8°.
Procedures are given for new compds. 3,4-Cl2C6H3XC6H4R, for which X, R, %
yield, and m.p. follow: CONH, 3,4-d-Cl2, 86.5, 232.6-3.3°; CSNH,
4-Cl, 77.0, 144.5-5.3°; CONH, 4-Cl, 80.0, 167.3-8.1°;
CH2NH, 4-Cl, 18.5, 169.0-0.5°; NHCH2, 4-Cl, 18.0,
122.3-3.1°; NHCO, 4-Cl, 73.3, 176.6-7.4°; N:CH, 3,4-Cl2,
86.5, 132.3-3.0°; N:CH, 4-Cl, 81.0, 103.7-4.4°; NHCH2CO,
4-Cl, 80.0, 182.5-3.7°; NHCOCH2CONH, 3,4-Cl2, 28.7, 227.8-8.6;
CH:CHCOCH:CH, 3,4-Cl2, 59.3, 202.1-2.8°; NHCOCONH, 3,4-Cl2, 27.3,
228.2-9.1°; NHC(:NH)NH, 3,4-Cl2, 74.0, 181.1-2.0°;
NHCOCH:CHCONH, 3,4-Cl2, 85.0, 227-9°; NHCO2CH2CH2OCONH, 3,4-Cl2,
79.3, 217.3-18.0°; NHCONH(CH2)4NHCONH, 3,4-Cl2, 100.0,
197.2-8.2°; NHCOC6H4 CONH-o, 3,4-Cl2, 71.8, 256-7°;
NHCONHC6H4NHCONH-p, 3,4-Cl2, 94.3, above 360°; NHCONHCH2, 3,4-Cl2,
90.0, 194.7-5.8°; CH2NHCONH, 4-Cl, 88.8, 213.2-13.7°;
NHCO2C6H4O2CNH-p, 3,4-Cl2, 84.5, 279-80°; NHSONH, 3,4-Cl2, 70.6,
49.5-50.2°; NHCO2CH2CH2SCH2CH2OCONH, 3,4-Cl2, 87.3,
141.4-2.5°; CONHCONHCO, 3,4-Cl2, 70.0, 199.6-200.4°;
NHCSNHNHCSNH, 3,4-Cl2, 89.9, 169° (decomposition); NHCONHNHCONH,
3,4-Cl2, 88.8, 233-4°; NHCONHNH, H, 97.8, 172.2-3.1°;
NHCO2(CH2)4OCONH, 3,4-Cl2, 86.0, 170.9-1.8°; CCl3CH:, 3,4-Cl2,
74.9, 101.3-2.1°; NHCH:N, 3,4-Cl2, 73.0, 158.3-9.1°; NHCO2,
4-Cl, 88.8, 149.5-50.7°; NHCO2, 3,4-Cl, 91.5, 148.1-9.1°. I
(162.1 g.) at 75-80° treated dropwise with 60.0 g. MeC.tplbond.CBr,
the slurry held 3 hrs. at 85°, cooled, neutralized at 20°
(ice bath) with 30 g. NaOH in 500 cc. H2O, the oil extracted with Et2O, and
the extract fractionated yielded N-(2-propynyl)-3,4-dichloroaniline, b7
152.7-3.4°, nD25 1.5991. I treated with CH2:CHCH2Cl and the
product held 18 hrs. at 80-5° yielded N-allyl-3,4-dichloroaniline,
b7.5 159.0-61.0, nD25 1.5859. EtOAc (1 l.) saturated with COCl2, treated at
reflux during 2-3 hrs. with 324 g. I in 1.5 l. EtOAc under a flow of
COCl2, the solution held 1 hr. at reflux, 1.5 l. EtOAc distilled at atmospheric
pressure, and the remaining EtOAc removed under a gradually increasing
vacuum yielded 90.5% 3,4-dichlorophenyl isocyanate, b10.5
116.7-18.1°, m. 40-1°. H2O (350 cc) containing 58.0 cc. 38% HCl
treated during 30 min. at 10-15° with 80.0 g. CSCl2, the cooling
bath removed, 128.0 g. I in 400 cc. PhMe added during 30-60 min., the
product held 3 hrs. at 85°, filtered, and the PhMe layer separated and
fractionated yielded 95.1% 3,4-dichlorophenyl isothiocyanate, b7.0
134.8-5.9°. 3,4-Br2C6H3NH2 by the same method yielded 86.5% crude
3,4-dibromophenyl isothiocyanate.

IT 121975-58-4, Urea, 1,1'-
[(phenylcarbamoylimino)bis(trimethylene)]bis[3-phenyl-
(and its bacteriostatic activity)

RN 121975-58-4 CAPLUS

CN Urea, N'-phenyl-N,N-bis[3-[[(phenylamino)carbonyl]amino]propyl]- (CA

INDEX NAME)

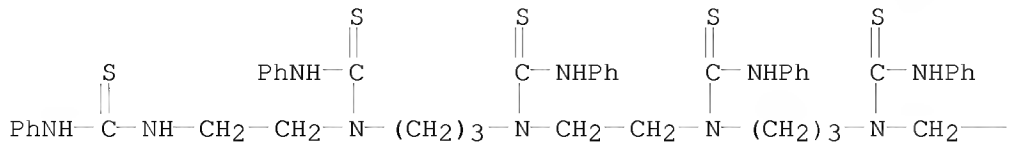


OSC.G 17 THERE ARE 17 CAPLUS RECORDS THAT CITE THIS RECORD (17 CITINGS)

L4 ANSWER 29 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1937:33067 CAPLUS
DN 31:33067
OREF 31:4645f-i,4646a
TI Aliphatic polyamines. IV
AU van Alphen, J.
SO Recueil des Travaux Chimiques des Pays-Bas et de la Belgique (1937), 56, 343-50
CODEN: RTCPB4; ISSN: 0370-7539
DT Journal
LA Unavailable
AB cf. C. A. 31, 1007.3. (CH2)3Br2 (240 g.), 360 g. of (CH2)2(NH2)2.H2O and 250 cc. absolute EtOH give 67 g. of 1,3-bis(2'-aminoethylamino)propane (I), b12 157°, 36 g. of II and 13 g. of III. II is triethylenebis(trimethylene)hexamine, b14 252°; it is a strong base and gives the same precipitation and color reactions as I; it gives a reddish violet biuret reaction with a small amount of Cu salt; HCl salt, with 2 mols. H2O, m. 275°; H oxalate, C12H32N6.6C2H2O4, amorphous, m. 235°; picrate, yellow, m. 220°; the condensation product with PhNCS, 1,16-bis(2'-phenylthioureido) -3,7,10,14-tetraphenylthiocarbamido-3,7,10,14-tetraazahexadecane, PhNHCSNH [CH2CH2N(CSNHPh) CH2CH2CH2N (CSNHPh)]2-CH2CH2NHCSNHPh, amorphous, m. 135-40°; II and CS2 in EtOH give a yellow, amorphous precipitate; heating at 190-200° splits off H2S and gives 1,3-bis[3' - (2'-thiotetrahydroimidazolyl - 1'') - propyl] - 2 - thiotetrahydro - imidazole, m. 166-7°. Reaction of II with BzH and reduction with Na in absolute EtOH gives 1,20-diphenyl-2,5,9,12,16,19-hexaazaeicosane, with 2 mols. H2O, m. 54°; the HCl salt, C26H44N6.6HCl, m. above 300° (decomposition); nitrate, m. 211°; picrate, yellow, m. 211°; the HCl salt and NaNO2 give the hexa-NO derivative, m. 86°. III, b14 316°, is a mixture containing 1,4,8,11-tetraazacyclotetradecane; this also is formed from I and (CH2)3Br2; HCl salt, C10H24N4.4HCl.H2O; nitrate, m. 205° (decomposition); picrate, decomps. 210°; H oxalate, decomps. 221°; with BzH on reduction there results a small quantity of 1,27 - diphenyl - 2,5,9,12,16,19,23,26-octaazaheptacosane, whose HCl salt, C31H56N8.8HCl, m. above 300°; this indicates that 1,23-diamino-3,7,10,14,17,21-hexaazatricosane is present in III. Other fractions, b1, 244° and b1 275°, are amines of the type (CH2CH2NHCH2CH2CH2)n.
IT 854247-55-5P, Ethylenediamine, N,N'-bis[3-[3-phenyl-1-[2-(3-phenyl-2-thioureido)ethyl]-2-thioureido]propyl]-N,N'-bis(phenylthiocarbamyl)-
RL: PREP (Preparation)
(preparation of)
RN 854247-55-5 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

PAGE 1-A



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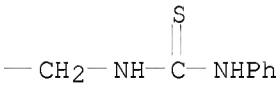

OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

L4 ANSWER 30 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1937:7774 CAPLUS
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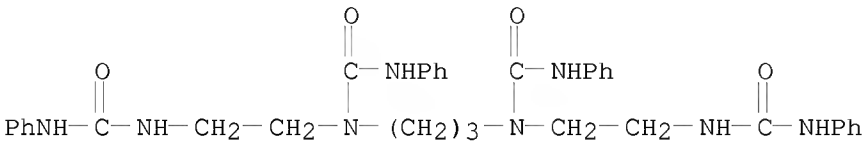
OREF 31:1007b-g
TI Aliphatic polyamines. III
AU van Alphen, J.
SO Recueil des Travaux Chimiques des Pays-Bas et de la Belgique (1936), 55, 835-40
CODEN: RTCPB4; ISSN: 0370-7539
DT Journal
LA Unavailable
AB cf. C. A. 30, 7100.4. 1,3-Bis[(2'-aminoethyl)amino]-propane (I), b. 286-7°, b35 185-6°, was prepared along with another amine, b35 274-6°, by adding slowly 150 g. of CH2(CH2Br)2 in 250 cc. of absolute alc. to 250 g. of 1,2-diaminoethane hydrate. The mixture was warmed for 1 hr., 200 g. KOH added, warmed 0.5 hr., filtered, distilled, the residue cooled, separated from solid KOH, and redistd. in vacuo. I forms a tripicrate, m. 171°, by adding a solution of picric acid to a solution of the amine, and a tetrapicrate, m. 223° (indefinite), by the reverse procedure or by heating the tripicrate with picric acid. Its tetraoxalate m. 237°. I in H2O is basic, gives a white precipitate with Nessler's reagent, phosphotungstic acid, reduces Ag salts and KMnO4 but not Fehling solution, reacts with Br water and with I2 in KI solution, gives a reddish violet color with a Cu salt and a rose-red with a Ni salt. The following derivs. of I have been prepared: 1,3-bis{3'-phenyl-1'-[2'-(3''-phenylureido)ethyl]ureido}propane, m. 145-55°, by mixing with PhNCO in ether solution; 1,3-bis{3'-phenyl-1' - [2' - (3'' - phenylthioureido)ethyl]thioureido}propane, m. 179°, with PhNCS; 1,3-bis{[2'-(benzoylamino)ethyl]-benzoylamino}propane, m. 172°, by the Schotten-Baumann method; 1,3 - bis(2' - thiotetrahydroimidazolyl - 1' -)propane, m. 156°, by heating at 140° the precipitate formed with CS2 in alc.; 1,3-bis-{[2'-(benzylamino)ethyl]amino}propane (II), from the reaction of I with 3 mols. of BzH, the product dissolved in absolute EtOH, 6 atoms Na added, the HCl salt precipitated with HCl (m. 270-90°

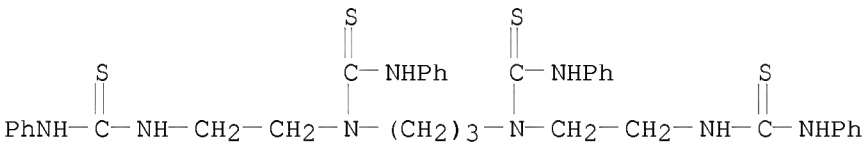
(decomposition)), and the free base obtained as an oil by treating with strong NaOH. The oil solidifies and crystallizes from H2O with 1 H2O, m. 44°; tetrapicrate, m. 201°; tetraoxalate, m. 247°.
II forms the following derivs.: 1,3-bis{[2'-(benzyl-nitrosoamino)ethyl]nitrosoaminolpropane, m. 99°, with NaNO2 and HCl in H2O; 1,3-bis{3'-phenyl-1'-[2''-(1'''-benzyl-3''' -phenylthioureido)ethyl]thioureido}propane, m. 130-5°, with PhNCS in alc.; 1,3-bis(2'-phenyl-3'-bensyltetrahydroimidazolyl-1'-)propane, m. 123°, with 1 mol. BzH, the mixture dissolved in ether and dried over anhydrous Na2SO4 and evaporated; 1,3-bis[2'-(p-methoxyphenyl)-3'-benzyltetrahydroimidazolyl-1'-]propane m. 110°, with anisaldehyde as above.

IT 854657-59-3P, Urea, 1,1'-trimethylenebis[3-phenyl-1-[2-(3-phenylureido)ethyl]- 854657-61-7P, Urea, 1,1'-trimethylenebis[3-phenyl-1-[2-(3-phenyl-2-thioureido)ethyl]-2-thio-
RL: PREP (Preparation)
(preparation of)

RN 854657-59-3 CAPLUS
CN 2,5,9,12-Tetraazatridecanediamide, N1,N13-diphenyl-5,9-bis[(phenylamino)carbonyl]- (CA INDEX NAME)



RN 854657-61-7 CAPLUS
CN 2,5,9,12-Tetraazatridecanedithioamide, N1,N13-diphenyl-5,9-bis[(phenylamino)thioxomethyl]- (CA INDEX NAME)



OSC.G 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

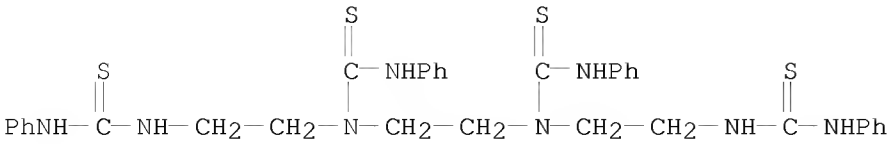
L4 ANSWER 31 OF 31 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1936:45195 CAPLUS
DN 30:45195
OREF 30:5992h-i,5993a-e
TI Aliphatic polyamines. I
AU van Alphen, J.
SO Recueil des Travaux Chimiques des Pays-Bas et de la Belgique (1936), 55, 412-18
CODEN: RTCPB4; ISSN: 0370-7539
DT Journal
LA English
AB 1,2-Bis(aminoethylamino)ethane (I), the triethylenetetramine of Hofmann (Ber. 3, 762(1870); 4, 666(1871); 23, 3297, 3711(1890)) is prepared in good yield as follows: pour 150 g. (CH2Br)2 in 125 cc. absolute EtOH slowly into 250 g. of 1,2-diaminoethane hydrate in 125 cc. absolute alc., reflux 1 hr.,

add 250 g. solid KOH and continue heating 10 min., stand overnight, filter, distil at atmospheric pressure to 130°, cool. Distil the upper layer in vacuo. Two fractions are obtained: I, b31 174°, and 1-(aminoethylaminoethyl)-piperazine or tetraethylenetetramine (II), b31 266-70°. I loses its 0.5 mol. H2O when distilled at ordinary pressure and b. 272°. It is characterized by its tetra-Bz derivative m. 236° (from alc.). I yields the following derivs.: 1,2 - bis{3' - phenyl - 1' - [2'' - (3''' - phenylureido)-ethyl]ureido}ethane, m. 237°, by adding PhNCO in ether and recrystg. the precipitate from EtOH; 1,2-bis-{3'-phenyl-1'-[2''-(3'''-phenylthioureido) ethyl]thioureido}ethane, m. 206°, by mixing with PhNCS in absolute alc. and purifying the insol. precipitate by extracting with boiling alc.; 1,3-bis(2''-benzylidene-aminoethyl)-2-phenyltetrahydroimidazole, m. 86° (immediately decomposed by dilute HCl), from 14.6 g. I and 31.8 g. BzH; 1,2-bis-{[(2''',4'''-dinitrophenyl) { (2'',4''-dinitrophenylamino) ethyl}] amino} -ethane (III), m. 285°, by boiling 6.7 g. I, 5 g. 1-bromo-2,5-dinitrobenzene, 5 g. NaOAc and 20 cc. EtOH for 1 hr., extracting the amorphous precipitate with H2O and boiling alc., dissolving in hot Me2CO (from which it suddenly ppts. as crystals and is then insol.), and recrystg. from boiling PhNO2; 1,2-bis(3'-thiotetrahydroimidazole-1')-ethane, m. 265° (recrystd. from H2O), by mixing alc. I with alc. CS2 and heating the precipitate of yellow thiocarbamate which loses H2S at 120-40°; 1,2 - bis{[(2''',4''',6''' - trinitrophenyl) {(2'',4''6''-trinitrophenylnitramino)ethyl}]amino}-ethane, which decomposes at 165° and explodes when heated suddenly, was prepared from 0.5 g. III and 5 cc. HNO3 cooled to - 15°, and precipitated by adding ice water slowly. II, a strong base, is a pale yellow viscous liquid with tobacco-like smell, miscible with H2O and EtOH but not with Et2O. Its formula is proved by the formation of the following compds.: tetra-picrate, m. 212°, tetra-oxalate, m. 289°, tri-Bz derivative: 4-benzoyl-1-[2'-{(benzoyl) (2''-benzoylaminoethyl)-amino}ethyl]-piperazine, prepared by the Schotten-Baumann method but could not be crystallized; its di-picrate, m. 221°; 4 - phenylthiocarbamido - 1 - {2' - [{phenylthiocarbamido-[2'' - (3''' - phenylthioureido) ethyl}amino]ethyl} piperazine, m. 132-40° (decomposition) from the reaction of alc. II with alc. PhNCS and repeatedly extracted with boiling alc.; and the mono-Bz derivative, 1-(benzylaminoethylaminoethyl)-piperazine-H2O, m. 50° (recrystd. from H2O), prepared by mixing 1 mol. of II with 2 mols. BzH, dissolving in absolute EtOH, adding 4 atoms Na, precipitating with strong HCl and treating with H2O and NaOH; its tetra picrate, m. 212° (decomposition).

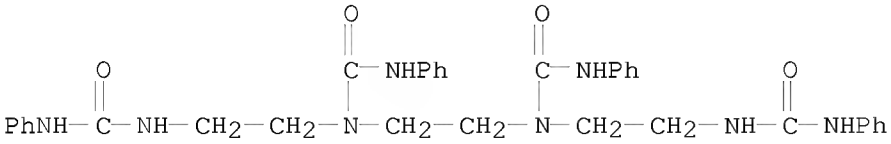
IT 88936-58-7P, Urea, α,α'-ethylenebis[β-phenyl-α-[β-(β-phenylthiocarbamido)ethyl]thio-
122595-05-5P, Urea, α,α'-ethylenebis[β-phenyl-α-[β-(β-phenylcarbamido)ethyl]- 858833-83-7P, 1-Piperazinecarboxanilide, 4-[β-[β-phenyl-α-[β-(β-phenylthiocarbamido)ethyl]thiocarbamido]ethyl]thio-
RL: PREP (Preparation)
(preparation of)

RN 88936-58-7 CAPLUS

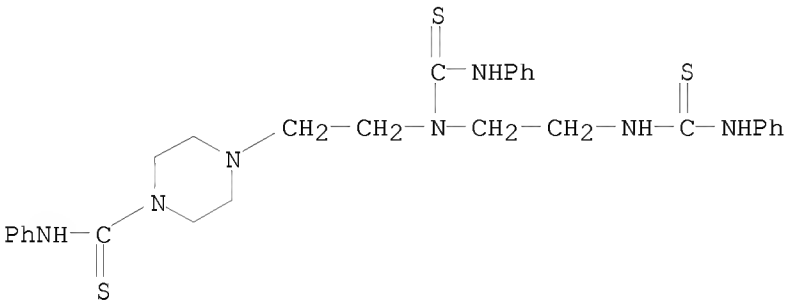
CN 2,5,8,11-Tetraazadodecanedithioamide, N1,N12-diphenyl-5,8-bis[(phenylamino)thioxomethyl]- (CA INDEX NAME)



RN 122595-05-5 CAPLUS
CN 2,5,8,11-Tetraazadodecanediamide, N1,N12-diphenyl-5,8-bis[(phenylamino)carbonyl]- (CA INDEX NAME)



RN 858833-83-7 CAPLUS
CN 1-Piperazinecarbothioamide, N-phenyl-4-[2-[[(phenylamino)thioxomethyl][2-[[(phenylamino)thioxomethyl]amino]ethyl]amino]ethyl]- (CA INDEX NAME)



OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)